Instructions for Installing

ASTATIC CRYSTAL MICROPHONES

ASTATIC microphones may be connected direct to grid or ground of Amplifier input tubes as illustrated by the fundamental circuit shown in Figure 1. This is possible due to their high impedance. When connected direct to grid it is important that a parallel resistance or grid leak of not less than five (5) megohms be used. A resistance of lower value may be used when it is desired to reduce the low frequency response.

Care should be exercised when using a plug and jack connection arrangement which may have questionable insulation qualities, as low value resistance seriously impairs the low frequency response. It is recommended that the parts be thoroughly impregnated with hot paraffine.

Transformer matching as shown in Figure 2 is recommended where it is desired to use a cable of more than 50 ft. in length between the microphone and amplifier. The winding next to the microphone should have an impedance of at least 100,000 ohms (approximately). It is also important to note that no D.C. voltage should appear across the crystal, as this would surely cause damage to the instrument.

FOR QUICK CHANGE FROM HIGH TO LOW AND LOW TO HIGH IMPEDANCE, WE RECOMMEND OUR LT6 LINE TRANSFORMER.

When using the microphone near strong RF, a cable with good shielding must be used. In the event RF feedback does occur, the following steps should be taken to correct it:

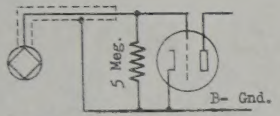
1. Shield cable and audio input circuits thoroughly.
2. Install RF filters in amplifier at microphone input.
3. By-pass audio plate circuits with low value mica condensers. (500 mmf or less).
4. Filter power line circuits.
5. Change length of microphone cable to a non-resonant length.

THE ASTATIC CORPORATION
CONNEAUT, OHIO

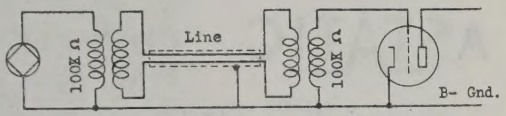
Printed in U.S.A.

Form 90-27

DATA AND INSTALLATION SHEET



Conventional Input - Fig. 1



Transformer Coupling - Fig. 2

WARNING

Rochelle Salt Crystal units must not be exposed to high temperatures. Do not install or store them where the temperature will rise to 45 Degrees Centigrade. If exposed to temperatures beyond this point, units will be permanently damaged and cannot be used.

Voltages cannot be applied to Rochelle Salt Crystal Phonograph Pickups or Microphones. Check all wiring to be certain that unit is not accidentally wired to speaker or power supply connections.

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

In Canada: Canadian Astatic, Ltd., 1820 Ellesmere Rd., Scarborough, Ontario
Export Sales: Morhan Exporting Corp., 270-78 Newtown Rd., Plainview, N.Y.11803

(Instructions other s

Microphone D-104

MODEL 'G' GRIP-TO-TALK DESK STAND

HOOKUP INSTRUCTIONS

Remove bottom plate which is held by 3 screws, for access to terminal strip.

I. *STANDARD LINE; using single conductor shielded cable.
Cable connections:
Center conductor (for amplifier grid input) to Terminal "B".
Shield (ground) to Terminal "A".

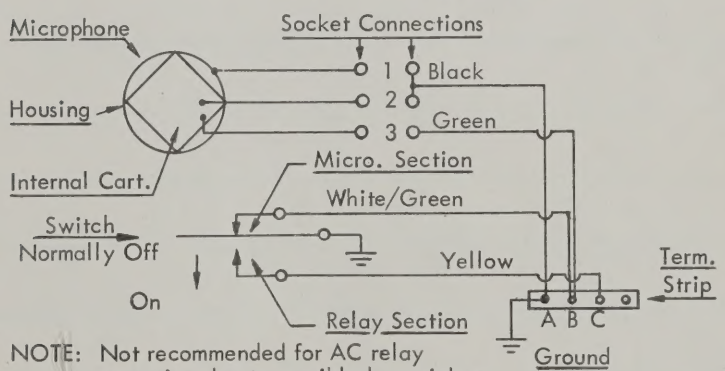
II. *STANDARD LINE; relay operation, using two conductor shielded cable.
Cable connections:
Microphone conductor (for amplifier grid input) to Terminal "B".
Relay conductor (relay control circuit) to Terminal "C".
Shield (common ground) to Terminal "A".

III. FOR CONTINUAL (VOX) OPERATION; remove white/green wire in switch circuit from Terminal "B".

NOTE: To hold switch bar in "ON" position, slide switch clamp up.

*Unbalanced to ground circuit (Note: conductor color codes of cables may vary)

"G" STAND - STANDARD HOOKUP



NOTE: Not recommended for AC relay operation due to possible hum pickup

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

In Canada: Canadian Astatic, Ltd., 1820 Ellesmere Rd., Scarborough, Ontario
Export Sales: Morhan Exporting Corp., 270-78 Newtown Rd., Plainview, N.Y.11803

FORM 90-59

PACE

Equipment

100S	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TA-2300/B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CBST 23 (Sidetalk 23)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
C-123A 123A (Late Prod) 10-2 100ASA 133 143	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
CB1023 CB1023B	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
1, 11, 11-S Plus 23 100, 200 223 2300 (Early) 2376 2376A 2376B	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk
2300 (5 pin plug) P 2376 2376A	Wh-5 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3
2300 2300 (Late Prod - 4 Pin) DX 2300D CB76	Wh-4 Sh-5 Yel-N.C. Bl-3 Red-1 Bk-2
8092 8047 CB-185 113 130 144 145 166 162 8041, 8046	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
1000B 1000M 8008 8025 1000MC 8133	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
8010A 8015A	Wh-4 Sh-3 Yel-N.C. Bl-2 Red-1 Bk-N.C.
8014	NOT COMP
8117 8113	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.
8340	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
8016	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
8155	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
8003	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

PAL ELECTRONICS

Roadrunner Coyote	E or R Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.

PALOMAR

Digicom 100	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
21 49 SSB-500	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

Equipment

Skipper 71B Skipper 73	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip
4100	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

PANASONIC

RJ3200 RJ-3600 RJ-3560	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
RJ-3100 RJ-3050 RJ-3250 RJ-3150	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

PEARCE SIMPSON

Guardian 23 Guardian 23B	Wh-1 Sh-Shell Yel-N.C. Bl-Shell Red-2 Bk-N.C.
Puma 23 Super Lynx Lynx 23 Tiger 23B Tiger 23C Cougar 23B Bearcat 23C GM 23 GM 23M	Wh-Audio Sh - Cond Yel - N.C. Bl - Cond Red - Relay Bk - N.C.
Leopard B	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
Wildcat Wildcat 11	Wh-5 Sh-4 Yel-1 Bl-6 Red-3 Bk-2

*T-UG9 Golden Eagle Special Instructions
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Director Director (Rev) Escort 11	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Escort	Wh-Audio Sh-Shell Yel-N.C. Bl-Shell Red-Relay Bk-N.C.
Bobcat 23	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-5 Bk-N.C.
Bobcat 23B Sentry	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Bearcat 23 Bearcat 23B Cheetah SSB Cougar 23 (Late Prod) Simba SSB Tiger 23 Panther SSB Bengal SSB Tomcat	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Panther	Wh-Audio Sh-Gnd Yel-Spkr Bl - 12V Source Red-Tran. 12V Supply Bk-Rec 12V Supply
Bobcat 23C Puma 23B Bobcat 23E Puma 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
2302 Pussycat 23	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3

PEARCE SIMPSON (Continued)

Equipment

2301 Tomcat 23B Alleycat 23	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
Bobcat 23D	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-3
GM-23B	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Tiger Mark II Tiger 40A Lion 40 Super Tiger Mark 40 Super Tiger 40A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Jaguar B	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.

J. C. PENNY

981-6051 (Golden Pinto) 985-6060 (Pinto 23B) 981-6246 981-6241 981-6225 981-6248	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
981-6075 (Pinto SSB)	Wh-Audio Sh - Cond Yel - N.C. Bl - Cond Red - Relay Bk - N.C.
985-6050 (Pinto 23)	Wh-3 Sh-1 Yel-N.C. Bl-1 Red-2 Bk-N.C.
981-6200 980-6201	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Grn Bk-Red
981-6204	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
981-6216 981-6218 981-6214 981-6247 981-6203 981-6237 981-6221 981-6215 981-6238	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6210 (Pinto) 981-6230 (Pinto)	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
981-6212 (Pinto) 981-6220 (Transceiver/ Scanner) 981-6235 (Pinto) 981-6240 981-6240A 981-6213	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6217	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
6247 981-6216 981-6214	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

PRESIDENT ELECTRONICS

Andrew J. John Q Honest Abe Teddy R. Zachary T. Dwight D. Grant Washington Adams Madison Old Hickory Thomas J. Veep AR-14 AR-44	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
McKinley Grant Washington Madison	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
AR-7	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

RAY JEFFERSON

Equipment

711	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-905	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
CB-705 CB-740	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
CB-2569	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
701	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-845	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-707	Wh-Red Sh-Sh Yel-Wh Bl-Bk Red-Yel Bk-Bl
CB805	Wh-3 Sh-1 Yel-N.C. Bl-4 Red-2 Bk-N.C.

RCA

14T100 14T200	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T300 14T301 14T303 14T304 14T-260 14T-2270	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T 400 14T-410 14T-405	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
14T305	NOT COMP

REALISTIC

Americana 23+	Wh-2 Sh-Shell Yel-N.C. Bl-Shell Red-1 Bk-N.C.
TRC-5	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Bk Bk-Red
TRC-8D	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-2
TRC-18	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
TRC-X23A	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-10	Wh-4 Sh-1 Yel-5 Bl-1 Red-3 Bl-2
TRC-152 TRC-452 TRC-30 TRC-30A TRC-248 TRC-50 TRC-50A (5 Pin) TRC-55 TRC-24C TRC-52 TRC-24A TRC-58 TRC-68 TRC-468 TRC-456 TRC-440 TRC-467 TRC-466 TRC-23C TRC-10A TRC-455 TRC-424	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

REALISTIC (Continued)

Equipment

TRC-431 TRC-490 TRC-426 TRC-421 TRC-205 TRC-427 TRC-469 TRC-454 TRC-67 TRC-422 TRC-420 TRC-425 TRC-470	
TRC-50B (4 Pin)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-1
TRC-9	NOT COMP
TRC-29 1st Model	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-29 2nd Model	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRC-480 TRC-46 TRC-47 TRC-48 TRC-49 TRC-57 TRC-458 TRC-457 TRC-449 TRC-448	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
TRC-40 TRC-23B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-24	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-471	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

REGENCY

CB-27 CBM-27-6 CBM-27-12	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Formula/23 Sprint/23	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
GT 523	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.

*Replace Back Jumper from Terminal 4 to Ground with 10 uf 12V DC Capacitor.

Imperial (CB-253) Imperial 11 (CB-254) Range Gain 11 Romper (A-3)	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Range Gain Ranger CB270	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Sprint 2311	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Model 500	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-7 v Bk-Spkr
CR-142 CR-230 CR-185 CF-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CR-123	Wh-Tip Sh-Case Yel-N.C. Bl-Case Red-Ring Bk-N.C.
CR-123B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

REGENCY (Continued)

Equipment

CR-186	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CR-202	Wh-Blk Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-501 CB-701	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBERTS

RCB-10	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
RCB-770 RCB-470	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-5
RCB-15 RCB-55	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBYN

BB 123 TR 123C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
J-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
K-123	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
T-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
TR-123B	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
XL-ONE SX-101 GT-VII XL-TWO SX-102 SX-102B SX-401 SX-402D SX-102D	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
AM-500D* WV-110 WV 23 SX-007 DG-30 LB-23 WV-23A LB-23A WV-110 LB-120 DG-130D 007-140	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

*Add a .01 capacitor in series with the white lead.

SS-747B	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
605	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
T-123B TR-123D	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.

ROBYN (Continued)

SB-510D SB-520D	* Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

*Add a .01 microtarad capacitor in series with the white lead.

T-240D	* Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

*Add a .01 microtarad capacitor in series with the white lead.

440	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
SB-540D	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
SB-505D	NOT COMP

ROMAR

CB-7000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
ACT-1914	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

ROYCE

1-600	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
1-600A 1-600B 1-620 1-608 1-611 651	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-601 1-602A 1-640 1-606 1-603 1-624 1-625 1-673 1-610 1-617	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-630	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-N.C.
1-648 1-619 1-604	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-5
1-609	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-5
1-675 1-632 1-658 1-636 1-631 1-605A 1-635 1-630 (4 Pin) 1-653 1-641 1-660 1-678 1-680 1-642 1-662 1-682	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-602 1-605	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-621 1-612 1-631 1-639 1-607	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-614	Wh-5 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.

RYSTAL

CBR-1800	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CBR-1700	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-523	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-2 Bk-3

SANYO

TA-1000	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
TA901A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bkl-3

SBE

1CB	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
7CB (Sierra)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
8CB (Console) 16CB (Console 11) 40 CB (Console V) 10 CB (Coranodo 11) 12 CB (Sidebander 11) 14 CB (Super Console) 6 CB	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
23 CB (Capri 11) 22 CB (Catalina 11)	Wh-Wh Sh-Sh Yel-Bl Bl-Red Red-Bk Bk-Brn
34 CB (Brute)	Wh-Wh Sh-Sh Yel-Grn Bl-Blk Red-Red Bk-Bl
9 CB (Catalina)	Wh-Audio Sh-Gnd Yel-N.C. Bl-Relay Red- 12V Bk-N.C.
18 CB (Sidebander III) 21 CB (Cortez) 26 CB (Formula D) 29 CB (Catalina III) 30 CB (Trinidad II) SBE-27CB/A (Sidebander IV) SBE-39CB (Sidebander V) SBE-40CB (Console V) SBE-41CB (Aspen) SBE-42CB (Cortez 40) SBE-44CB (Malibu 40) SBE-45CB (Trinidad III) SBE-54CB (Key/Com 1000) SBE-50CB (Console VI)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
Delmar 225 LCM-5 (Land Command)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
49CB Tahoe Land Command (LCM-8)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-5 Bk-1
Land Command (LCM-8)	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-5 Bk-3

SBE (Continued)

LCBS-4	Wh-4 Sh-2 Yel-N.C. Bl-3 Red-5 Bk-1

M. H. SCOTT

Dak Mark IX Dak Mark X	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Dak Mark III Dak Mark II Dak Mark V	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

SEARS

663.38070700 934.36770500 934.36710500 934.36740500 934.36772600 934.36771500 934.38310700 Road talker (3822) 934.36742600 370.38050700 582.38200700 934.38120700 934.38080700 934.38110700 934.38081700 934.38060700 934.38062700 934.38270700 934.38260700 663.38020800 663.38000900	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

SHAKESPEARE

GBS-2500 GBS-1500 GBS-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GBS-2000	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
740	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
840	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

SHARP

CB-700 CB-800 CB-2260 CB-2460 CB-750A CB-8000A CB-4370 CB-2170 CB-5470	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
CBT-58 CB-500UB CB-550UB	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.

SILTRONIX

1011C	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
Apache Mohawk	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
SSB-23	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.

SONAR

Model E FS-23 Model G Model H FS-3023 FS-2340	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
J-23	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Blk

SPARKOMATIC

CB-1023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

SPARKOMATIC (Continued)

Equipment

CB 2023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
CB-1123 CB-5100 CB-5000 CB-1040	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
CB-2123	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-2 Bk-3

STANDARD COMMUNICATIONS

Horizon 29 Horizon 29A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

SUMISONIC

1012	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
2100 2300	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
2400	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
2610	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
2820	NOT COMP
2630	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

SURVEYOR

CB-2600	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1

TEABERRY

Model T-Control New T-Charlie One	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
Big T	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Five X Five	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MINI T	Wh-1 Sh-2 Yel-5 Bl-3 Red-4 Bk-4

*T-UG9 Golden Eagle Special instructions:
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6.
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Twin T	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
Model T	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

TEABERRY (Continued)

Equipment

T Charlie One	Wh-2 Sh-3 Yel-N.C. Bl-2 Red-1 Bk-4
Stalker V Stalker XII Golden 5 x 5 TB-73 New Big T "T" Bear Titan "T" T Dispatch T Bear T Command	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Ship's Radio	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Stalker One Stalker Two Stalker 202 Stalker 101	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Mighty-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
Tele-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-5 Bk-3
T-Scout	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Violet
Racer T* T Hawk T Charlie	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

*23 channel RACER T radios require a 47K resistor in series with white lead to prevent damage to the radio.

Ranger T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
Stalker IV	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Stalker XV Stalker IX	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
Stalker VIII	Wh-1 Sh-3 Yel-N.C. Bl-1 Red-3 Bk-5
Stalker III	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

TEMPO

ONE	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

TOKAI

TC-1001	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
TC-5007	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5014 TC-5010 PW-5024	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5040	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

TOKAI (Continued)

Equipment

TC-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

TRAM

Corsair 464 TR 27 D/E XL-100	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
D201A D201 Titan Titan 11 Titan 11A Titan 111 Tita IV	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Diamond 60 Diamond 40 XL XL-5 XL-23 D12 D42 D62 D64	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
D300 D80	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-5 Bk-3

TRS - CHALLENGER

1400 850	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4

HOOKUP INSTRUCTIONS FOR ASTATIC T-UG9 STAND T-UP9 STAND T-UG9-D104 T-UP9-D104 T-UP9-D104 "SILVER EAGLE" "GOLDEN EAGLE" 1104C 1104CM

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

Form No. 90-232

TECHNASPECS ASTATIC MODELS T-UG9-D104 AND T-UP9-D104

The world famous Astatic D-104 microphone in combination with the Astatic T-UG9 or T-UP9 stand, offers the CB'er and Ham operator the best base station power microphone available. The stands have a built-in two stage transistor amplifier with an output impedance suitable for the inputs of all commercial transmitters and transceivers. The high gain amplifier along with the tailored response provides excellent talk-power, intelligibility and full modulation. The amplifier gain control is recessed to avoid accidental changes. A 6-wire coil cord for universal hookup applications is standard on both stands.

The T-UG9-D104 is finished in durable polished chrome with a gray Hammerlin base. The "Silver Eagle" has all the features of the T-UG9-D104 plus a "Silver Eagle" emblem on the base plate, a pre-to-talk bar, and is finished in bright chrome plate.

SPECIFICATIONS

- D-104 Microphone: High quality metal sealed type crystal.
- Microphone Receptacle: On top of stem offers instant microphone change versability.
- Frequency Response: See Fig. J
- Output Level: -20dB fe 1 V/microbar, open circuit.
- Amplifier Voltage Gain: 26dB
- Battery Type: 9 volt, Eveready 216, Burgess 2V6, Ray-O-Vac 1604, etc.
- Battery Drain: 1.2 ma
- Battery Life: Approximately 6 months (based on normal usage)
- Temperature Range: -30°C to +45°C (do not subject a crystal to temperatures above 45°C (113°F, permanent damage may result).

CLEANING INSTRUCTIONS

Wipe gently with a soft damp cloth as required. A light coating of a good quality auto polish will further prevent dirt and scratches. Use mild detergent on 1104C plastic housing; wipe with clean soft cloth. CAUTION: Do not use abrasive materials or harsh chemicals at any time to clean these products.

TECHNASPECS ASTATIC MODEL 1104C & 1104CM

The new Astatic 1104C pre-amplified base station microphone offers the CB'er modern styling, modern features, and with the sound and "talk-power" made famous by the Astatic D104 for over 40 years.

An output impedance compatible with the inputs of all commercial transmitters/transceivers and adjustable high gain amplifier ensures desired modulation level. The amplifier has easily accessible slide controls for volume and tone adjustment so that the correct modulation level and tone quality can be set for each operator's voice. A master gain control, accessible only thru the open battery replacement door, can be adjusted to prevent over-modulation and distortion. The amplifier is powered by a readily available, easily replaced, 9 volt battery. Six wire coil cord allows for relay, electronic or virtually any type hookup with almost any transmitter/transceiver. The audio line is open on receive.

SPECIFICATIONS 1104C & 1104CM

- Type: Transistorized ceramic
- Frequency Response: Adjustable (See Fig. K)
- Output Level: Adjustable. -25dB to -75dB below 1 V/microbar open circuit, to set the correct modulation level.
- Amplifier: Two-stage, low noise FET input, rugged silicon transistor output, gain easily adjustable with slide knob control.
- Master Gain Control: Used to adjust maximum output.
- External Volume Control: For external gain adjustments desired after proper adjustment of minimum output.
- Tone Control: Easily adjusted slide knob (See Fig. B)
- Battery Type: 9 volt; Eveready 216, Burgess 1V6, Ray-O-Vac 1604, etc.
- Battery Drain: 1.5 ma
- Battery Life: Approximately 6 months (based on normal usage).
- Temperature Range: -30°C to + 70°C

1104C & 1104CM VOLUME AND TONE ADJUSTMENTS

The master gain control has been preadjusted to approximately -50dB re: 1 volt/microbar with external volume and tone controls set at maximum volume and bass. The majority of applications should not require further adjustment of the master gain control for good modulation.

If additional gain is required or over-modulation is experienced, readjust the master gain control as follows. At a speaking distance of 18 inches, with the external slide volume and tone controls set in the center position, adjust the master gain control (thru the open battery replacement door) for 100% modulation. The external slide volume control may now be adjusted for proper modulation at varying distances and with different operators. The tone control should be adjusted for the most intelligible sound. Slide the tone control toward 0 for an increase in bass response and toward 10 for an increase in treble response.

METER (1104CM ONLY)

The meter indicates the incoming audio level to the microphone, not the output level, and therefore, is not affected by the volume control.

BATTERY CHECK

While holding the push-to-talk bar down, press the small push-button on the back of the microphone base, behind the meter, and read the battery output voltage on the meter. If the pointer deflects into the red area, the battery is good. This checks the battery under actual working conditions.

GENERAL WIRING INSTRUCTIONS FOR ASTATIC T-UG9-D104, T-UP9-D104, 1104C & 1104CM

The proper wiring hookups for Astatic T-UG9-D104, T-UP9-D104 and 1104C to a number of popular CB sets are given in the chart.

To use the chart, find your transceiver in the listing and then hookup as listed to the right.

All transceivers between any two horizontal lines hookup the same. For instance the Cobra: 28, 28A, 85, 130, 131, 135, 139, 880, and 18 all wire up the same: 2, shield to pin 1, yellow - no connection, blue to pin 4, red to pin 3, and black - no connection. Also, under the hookup column, the left side is always the Astatic lead color and the right side is plug pin number, original microphone cable color, or lead function.

If your radio is not listed or if the listed hookup does not work, then the general hookup instructions may help to determine the proper connections.

There are two general hookup classifications; "ELECTRONIC" and "RELAY". Each of these may be further subdivided into those that switch control lines to the ground and those that switch control lines to the plus voltage supply.

The best method for determining the proper hookup is a careful study of the transceiver schematic. If this is not possible, then the following steps can lead to the appropriate hookup.

1. First, determine if the transceiver is electronic or relay switching. To do this, insert a bare plug with no wires attached, into the microphone jack. Turn on the unit. If the receiver operates under this condition, the set is "relay" type switching. If the receiver does not receive, then the set is "electronic" type switching.

Any set using only three hookup connections, such as a stereo type phone plug, 3 pin plugs, or multiple pin plugs using only 3 connections, is simple relay switching to ground.

Second, check the original microphone hookup. The shield on the Astatic microphone should hook to the same point as the original shield. Third, determine which original wire is the "Audio" line. This will be the one wrapped by the shield. The Astatic white lead is the "Audio" line and will hook to the same point as the original audio line. Fourth, follow the instructions for "Relay" or "Electronic" hookups.

GENERAL "RELAY" HOOKUPS

If the transceiver uses only 3 connections, add the blue lead to the shield connection point and the red wire to the point where the third wire of the original mic was connected. Do not connect the yellow and black wires.

If the set has 4 or more wires in the hookup, check for continuity using an ohm-meter, with the microphone keyed, between the shield and any lead other than the audio lead previously determined. If any lead is shorted to the shield when the microphone is keyed, hook the red to this connection point and the blue to the shield connection point. If continuity is not found between any leads and shield, then check between leads on the original unit two are found that are shorted together when the microphone is keyed and are open when unkeyed. Hook the blue to one of these points and the red to the other. The yellow and black most probably should not be connected. Tape ends of unused leads to prevent accidental shorting inside connector or unit.

GENERAL "ELECTRONIC" HOOKUPS

For the electronic switched transceiver with 4 connections, hook the blue lead to the shield connection point and the red and black leads to the two control wire connection points. If the transceiver operates in the transmit modes as soon as the mic is plugged in, reverse the red and black leads.

If the electronic switched transceiver has more than 4 connections, use an ohm-meter to check for a lead that is open when unkeyed and shorted to the shield when keyed. If you find one switching in this manner, then check for a lead shorted to shield when unkeyed and open when the microphone is keyed. If these conditions then add the blue to the shield connection point, the red to the point that is grounded when keyed and the black to the point that is grounded when keyed.

If no lead in the original microphone is found to ground to the shield during receive, then the control is most probably done by switching the positive supply line. To determine this, use an ohm-meter to check between the various control line connection points to find a pair that are shorted together when the microphone is keyed and open when the microphone is unkeyed. One of these leads should also be shorted to another lead when unkeyed and open when keyed. Hook the blue lead to the connection point common to the two conditions above, hook the red lead to the point that is shorted when unkeyed. On a very few transceivers of this type, a sixth lead is grounded to shield when the microphone is unkeyed and open when microphone is keyed. If you have a control lead of this type, hook the yellow lead in place of this lead. Tape ends of unused leads to prevent accidental shorting inside connector or unit.

These general instructions, if carefully followed, will result in proper hookups for 99% of the CB transceivers. The few special types will require close study of their schematics.

CONNECTOR-CABLE CLAMPING

If the microphone plug you have selected for your hookup requirements does not have a cable clamp suitable for this small diameter high quality microphone cable, use tubing as supplied by Astatic.

Simply slip tubing over cable prior to soldering of lead wires. Position it to ensure proper clamping of cable and tubing by the connector.

NOTE: All hookups on this chart are accurate as far as possible according to the best information available to Astatic at the time of printing. Due to the large number of sets involved, it is impossible to try all of the possible combinations of microphones to sets and, therefore no guarantee is given that the hookups are correct.

SPECIAL INSTRUCTION NOTES FOR T-UP9-D104, T-UG9-D104, 1104C & 1104CM

1. A combination of the amplified stand and a high level microphone may result in over modulation (tinny or hollow sound), overly sensitive gain adjustment or a squeal when transmitting. One possible solution for this problem is to add a ½ or ½ watt resistor equal to ten times the input impedance of the set, in series with the white cable lead.
2. When wiring microphone cables and plugs to equipment, the color codes for the cable and for the equipment are not necessarily the same. Be careful to connect wires to the correct terminals.
3. Occasionally R.F. feedback presents problems. The solution is basically good installation.
   a. Antenna feeding standing wave radio must be low.
   b. Good grounding eliminates a "hot" transmitter chassis condition which can couple R.F. into unwanted places. On base stations multiple grounds with different length line to each ground is good practice.
   c. In stubborn cases it may be necessary to alter microphone cable length to a nonresonant length. A coil cord in lieu of a straight cable can be a solution.
   d. In extreme cases it has been found that installation of an R.F. filter in the transmitter at the audio input eliminated R.F. to audio input stage. This filter comprises a 10K ohm resistor in series and a 001 mfd. capacitor from the microphone input to ground (See Fig. C).
   e. A 2mh R.F. choke in series with the white audio line will often cure R.F. feedback problems.
4. Some transceivers (such as Messenger 124) have the microphone biased at a D.C. potential differing from the outer case. With a metal housed microphone there is a possibility of shorts to the outer case, blowing fuses, or damaging equipment. When using equipment of this type, with a T-UP9, carefully remove the 3 soldered lugs holding the mic insert in place and turn over so the component side is up. Locate the bare jumper wire. Carefully remove and replace the wire with a 10 mfd. capacitor of adequate voltage rating. Carefully reinstall the circuit board. For a T-UG9 replace the black jumper from terminal 4 to the solder lug, with a 10 mf. capacitor of adequate voltage rating.
5. On initial setup it is good practice to turn gain completely down. After turning on the transmitter, slowly turn the gain up until desired modulation level is reached. This procedure aids in getting gain properly set without going through periods of excessive distortion and over modulation.
6. When using the T-UP9 stand, it will be found on a few sets that the audio line must be grounded in the receive mode to avoid hum. To do this, add a jumper between the two pads as shown in Fig. D. For a T-UG9 stand, cut the purple wire from terminal 3 and add it to terminal 5. For the 1104C and 1104CM add a jumper as shown in Fig. F.

ALARON INC. (B & B IMPORT) / ALLIED/KNIGHT

Equipment

B-4500	Wh-2
B-4900	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-4
B-4075	Wh-1
B-4085	Sh-4
B-4900	Yel-N.C.
B-4950	Bl-3
B-5050A	Red-2
	Bk-5
B-1025	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
B-1050	Wh-3
B-4050	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-1
B-1150	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
B-1100	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.

A-2507	Wh-Bk
	Sh-Sh
	Yle-N.C.
	Bl-Sh
	Red-Red
	Bk-Spkr
A-2530	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
A-2559	Wh-Wh
A-2561	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Red
	Bk-N.C.
A-2533	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Control
	Bk-Spkr
KN-2560	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-N.C.
KN-2590	Wh-Wh
	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Red
	Bk-Bk

ALLIED KNIGHT (Continued)

Equipment

A-2545	Wh-4
A-2568	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
A-2569	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Control
	Bk-Spkr
KN-2500	Wh-3
KN-2550	Sh-4
KN-2580	Bk-N.C.
KN-2585	Bl-4
	Red-1
	Bk-5
KN-2526	Wh-1
KN-2565	Sh-2
KN-2567	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.

AMERICAN ELECTRONICS

Buccaneer	NOT COMP
SPIRIT FREEDOM	Wh-4
	Sh-3
	Yel-N.C.
	Bl-3
	Red-1
	Bk-2

ARROW

CB-788	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-5

AUDIOVOX

MCB-500	Wh-1
	Sh-6
	Yel-2
	Bl-4
	Red-5
	Bk-3
MCB-1000	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
MCB-750	Wh-1
	Sh-4
	Yel-N.C.
	Bl-5
	Red-3
	Bk-2
MCB-1000	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-5
MCB-2000	Wh-1
	Sh-6
	Yel-N.C.
	Bl-4
	Red-5
	Bk-3
MCB-3000	Wh-1
	Sh-2
	Yel-N.C.
	Bl-3
	Red-5
	Bk-N.C.

BELTEK

W-5335F	Wh-2
	Sh-1
	Yel-N.C.
	Bl-1
	Red-4
	Bk-3

BOHSEI

D-1325RF	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

BOMAN

CB-755	Wh-2
CB-750	Sh-4
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.
CB-930	Wh-1
CB-950	Sh-2
CB-970	Yel-N.C.
CB-910	Bl-2
CB-990	Red-4
CB-515	Bk-3
CB-920	
CB-9900	Wh-1
	Sh-5
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
CB-720B	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-3

BOWMAN

Equipment

CB-555	Wh-1
CB-725	Sh-2
CB-740	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
CB-770	Wh-1
	Sh-3
	Yel-N.C.
	Bl-4
	Red-2
	Bk-N.C.
CB-9600	Wh-2
	Sh-1
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
CBR-9700	Wh-1
CBR-9940	Sh-3
	Yel-N.C.
	Bl-5
	Red-2
	Bk-N.C.
CBR-9950	Wh-1
	Sh-2
	Yel-4
	Bl-2
	Red-3
	Bk-5

BROWNING

Eagle S-23	**Note 6**
Mark II SSB	Wh-1
Golden Eagle	Sh-Shell
Golden Eagle	Yel-N.C.
Mark II	Bl-Shell
Golden Eagle	Red-2
Mark III	Bk-N.C.
LTD	Wh-2
SST	Sh-1
Brownie	Yel-N.C.
Sabre	Bl-4
SST-2	Red-3
Baron	BK-N.C.
Eaglette	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-Rec Gnd
GOLDEN EAGLE	**Note 6**
MARK IV	Wh-1
MARK IV A	Sh-3
	Yel-N.C.
	Bl-5
	Red-2
	Bk-N.C.

CARDON

Atlas Mark V	Wh-1
Astro 23	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
Command CB-727	Wh-Audio
Universe CB-747	Sh-Gnd
Ventura SSB	Yel-N.C.
Tycoon CB-707	Bl-Gnd
Glaaxie Twin	Red-Relay
Vanguard	Bk-N.C.
Phantom 23C	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-2
	Bk-N.C.
Spitfire	Wh-1
Mark II	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-3
Algonquin 40	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

CHANNEL MASTER

CB-6830	Wh-2
CB-6835	Sh-4
CB-6832	Yel-N.C.
CB-6834	Bl-4
CB-6831	Red-3
	Bk-1

CHRYSLER

4048076	Wh-1
4048077	Sh-3
	Yel-N.C.
	Bl-5
	Red-2
	Bk-N.C.

CITIZEN

BPL524-77	Wh-1
MPL2-77	Sh-3
MPL3-77	Yel-N.C.
SSB-M6 M5,M3, M2	Bl-3
	Red-2
	Bk-5

CLARICON

30400	Wh-2
(Pirate)	Sh-5
	Yel-N.C.
	Bl-5
	Red-4
	Bk-N.C.

CLARICON (Continued)

Equipment

30850	Wh-4
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-5
30800	Wh-2
(Activator)	Sh-1
30600	Yel-N.C.
(Privateer)	Bl-1
	Red-4
	Bk-3
30200	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Control
	Bk-Sprk
14-523	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.

COLT COMMUNICATIONS CO.

290	Wh-1
800	Sh-2
1000	Yel-N.C.
480	Bl-2
485	Red-4
390	Bk-3
1200	
900	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
350	Wh-4
	Sh-2
	Yel-N.C.
	Bl-3
	Red-5
	Bk-1
220	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-5
222	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-3

COMEX COMMUNICATION CORP.

CCB-770	Wh-1
	Sh-6
	Yel-N.C.
	Bl-5
	Red-4
	Bk-3

COMMAND ELECTRONICS

THE STAR	Wh-2
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.

COMMUNICATIONS POWER

CP-300	**Note 6**
CP-2000	Wh-1
CP-400	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
CP-500	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.

CORNELL - DUBILIER

MARK X	Wh-1
MARK 20	Sh-3
	Yel-N.C.
	Bl-2
	Red-2
	Bk-N.C.
Mark 12	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-3
Mark 26	Wh-2
	Sh-4
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.

CRAIG

4101	Wh-2
4102	Sh-3
4103	Yel-N.C.
4104	Bl-3
4201	Red-5
L101	Bk-4
L102	
L131	
L331	
L103	Wh-2
L104	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-4

CRAIG (Continued)

Equipment

L132	Wh-1
L232	Sh-2
	Yel-N.C.
	Bl-4
	Red-5
	Bk-3

DELCO

CBD-10	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
1977 Series	Wh-1
1979 Series	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
1978 Series	Wh-1
908FMC1	Sh-5
90BFPC1	Yel-N.C.
90YFMC1	Bl-2
	Red-4
	Bk-3

DEMCO

SATELITE	Wh-2
TRAVELIER	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.
Satelite	Wh-4
Deluxe	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-2
Ravelle	Wh-Ring
	Sh-Sleeve
	Yel-N.C.
	Bl-Sleeve
	Red-Tip
	Bk-N.C.

DYNASCAN (B & K)

Cobra 20	Wh-Audio
Cobra 24	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-Spkr
Cobra 6	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Control
	Bk-Spkr
Cobra 89GTL	Wh-2
Cobra 21	Sh-1
Cobra 29	Yel-N.C.
Cam 89	Bl-3
Cobra 19	Bk-4
Cobra 21 XLR	
Cobra 77X	
Cobra 29 XLR	
Cobra 89 XLR	
Cobra 21GTL	
Cobra 25GTL	
Cobra 19 GTL	
Cobra 78X	
Cobra 1000GTL	
Cobra 87GTL	
Cobra 146-GTL	
Cobra 23	Wh-Audio
Cobra 27	Sh-Gnd
Cobra V	Yel-N.C.
	Bl-Gnd
	Bk-Spkr
	Red-Control
Cobra 25	Wh-3
	Sh-1
	Yel-N.C.
	Bl-4
	Red-2
	Bk-N.C.
Cobra 28A	Wh-2
Cobra 28	Sh-1
Cobra 130	Yel-N.C.
Cobra 131	Bl-4
Cobra 132	Red-3
Cobra 135	Bk-N.C.
Cobra 880	
Cobra 139	
Cobra 132A	
Cobra 85	
Cobra 135 XLR	
Cobra 29GTL	
Cobra 46 XLR	
Cobra 32 XLR	
Cobra 139 XLR	
Cobra 138 XLR	
Cobra 86 XLR	
Cam 88	**Note 6**
Cobra 98	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
Cobra 138	Wh-Tip
Cobra 138A	Sh-Sleeve
	Yel-N.C.
	Bl-Sleeve
	Red-Ring
	Bk-N.C.
FANFARE 120	Wh-Yel
	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Wh
	Bk-Bk
Rebel 40A	Wh-Wh
Fanfare 100F1	Sh-Sh
Rebel PLL	Yel-N.C.
	Bl-Sh
	Red-Red
	Bk-Bk
Galaxy	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-5
	Bk-3

EICO

Equipment

7723	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

FANON/COURIER

Citation	Wh-1
Classic II	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
Fleet Courier	Wh-3
Courier 23+	Sh-4
Royale	Yel-N.C.
Courier 23	Bl-4
Fleet Courier	Red-3
30B	Bk-N.C.
Chief 23	Wh-4
	Sh-3
	Yel-N.C.
	Bl-3
	Red-1
	Bk-2
Courier 1M	**Note 6**
	Wh-3
	Sh-4
	Yel-N.C.
	Bl-2
	Red-4
	Bk-1
Classic III	Wh-2
Redball	Sh-4
Cruiser	Yel-N.C.
	Bl-4
	Red-3
	Bk-1
SFT-800A	Wh-Audio
Courier TR-5	Sh-Gnd
Traveller	Yel-N.C.
	Bl-Gnd
	Red-Volt
	Source
	Bk-Spkr
	Xfmr
Ranger 23	Wh-3
Raveller II	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-1
Cadet 23	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.
Carvelle	Wh-Tip
Centurion	Sh-Sleeve
Conquerer	Yel-N.C.
Gladiator	Bl-Sleeve
Spartan SSB	Red-Ring
Caravelle II	Bk-N.C.
Conquerer II	
Fanfare 880	
Fanfare 350F	
SFT 600	Wh-2
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.
SFT 400	Wh-1
SFT 500	Sh-2
Fanfare 700	Yel-N.C.
	Bl-2
	Red-3
	Bk-5
COMET 23	Wh-2
SFT-700	Sh-1
SFT 900	Yel-N.C.
(Guardsman)	Bl-1
	Red-4
	Bk-3
Classic PLL 40	Wh-2
Caravelle 40D	Sh-4
Fanfare 880DF	Yel-N.C.
Conqueror 40D	Bl-4
Fanfare 185 DF	Red-3
Fanfare 184 DF	Bk-1
Fanfare 182 F	
Fanfare 125 F	
Rangler 40D	
Blazer 40D	
Renegade 40	
Rogue 40	

FIELDMASTER

Equipment

Micro Mini 3	Wh-1
Micro Mini 6	Sh-6
Micro Mini 23	Yel-2
	Bl-4
	Red-5
	Bk-3
TR-18A	Wh-1
TR-18M	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
MF-1001	Wh-5
	Sh-2
	Yel-N.C.
	Bl-2
	Red-1
	Bk-N.C.

GM

GM 123A	Wh-Wh
9E 5432	Sh-Sh
4120	Yel-Yel
4145	Bl-Red
4175	Red-Bl
4230	Bk-Bk
CBD-12	Wh-Wh
7898540	Sh-Sh
	Yel-Bl
	Bl-Bk
	Red-Bk
	Bk-Or
GM 23B	Wh-4
	Sh-3
	Yel-N.C.
	Bl-3
	Red-1
	Bk-2
CBD-10	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
GM 23C	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

GEMTRONICS

GTX-3000	Wh-1
	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-5
GTX-23	Wh-2
GTX-36	Sh-1
3325	Yel-N.C.
GR 11930	Bl-2
GTX-3323	Red-4
GTX-4040	Bk-3
GTX-2325	Wh-1
GR-11935	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
GTX-2300	Wh-1
CB-11923	Sh-4
GTX-5000	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
GT-44	Wh-1
GTX-55	Sh-2
GTX-77	Yel-N.C.
GTX-66	Bl-2
	Red-4
	Bk-3
GT-230	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-4

GENERAL ELECTRIC

3-5800A	Wh-4
3-5810A	Sh-1
3-5804A	Yel-N.C.
	Bl-1
	Red-3
	Bk-5
3-5801A	Wh-4
3-5811B	Sh-1
3-5804,B,D,G	Yel-N.C.
3-5809	Bl-2
3-5871	Red-3
3-5810B	Bk-5
3-5871A	
3-5818A	
3-5871B	
3-5806A	
3-5818	Wh-1
3-5812A	Sh-2
3-5819B	Yel-N.C.
3-5825A	Bl-2
3-5802	Red-4
3-5813	Bk-3
3-5814	
3-5821	
3-5869	
3-5819A	
3-5821A	
3-5813A, B	
3-5814A, B	
3-5869A	
3-5873	
3-5875A	
3-5825B	
3-5817A	

GENERAL ELECTRIC (Continued)

Equipment

3-5830A	Wh-4
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.

GRANADA

CB-7	Wh-2
FCB-27	Sh-1
	Yel-N.C.
	Bl-1
	Red-4
	Bk-N.C.
CB-4	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-5

HALLICRAFTERS

261	Wh-1
	Sh-4
	Yel-N.C.
	Bl-6
	Red-3
	Bk-5

HANDIC

2305	Wh-2
	Sh-1
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
240	Wh-1
	Sh-3
	Yel-5
	Bl-6
	Red-2
	Bk-4
230	Wh-4
	Sh-3
	Yel-1
	Bl-2
	Red-6
	Bk-5
235	NOT COMP
305	
605	
605 DL	
3605	

HITACHI

CM-2375H	Wh-4
CM-2400C	Sh-1
CM-2400H	Yel-N.C.
CM-2423H	Bl-2
CM-4800C	Red-3
CM-4800H	Bk-5

HY-GAIN

603 (23 plus)	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
672	Wh-1
(Hy Range III)	Sh-2
673	Yel-N.C.
(Hy Range IV)	Bl-2
674	Red-3
(Hy Range V)	Bk-N.C.

HOOKUP INSTRUCTIONS FOR ASTATIC T-UG9 STAND T-UP9 STAND T-UG9-D104 T-UP9-D104 T-UP9-D104 "SILVER EAGLE" "GOLDEN EAGLE" 1104C 1104CM

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

Form No. 90-232

TECHNASPECS ASTATIC MODELS T-UG9-D104 AND T-UP9-D104

The world famous Astatic D-1094 microphone in combination with the Astatic T-UG9 or T-UP9 stand, offers the CB'er and Ham operator the best base station power microphone available. The stands have a built-in two stage transistor amplifier with an output impedance suitable for the inputs of all commercial transmitters and transceivers. The high gain amplifier along with the tailored response ensures excellent talk-power, intelligibility and full modulation. The amplifier gain control is recessed to avoid accidental changes. A 6-wire coil cord for universal hookup applications is standard on both stands.

The T-UG9-D104 is finished in durable polished chrome with a gray Hammerlin base. The "Silver Eagle" has all the features of the T-UG9-D104 plus a "Silver Eagle" etched on the back plate, a pre-to-talk bar, and is finished in bright chrome plate.

SPECIFICATIONS

• D-104 Microphone:	High quality metal sealed type crystal.
• Microphone Receptacle:	On top of stem offers instant microphone change versability.
• Frequency Response:	See Fig. J.
• Output Level:	-20dB re 1 V/microbar, open circuit.
• Amplifier Voltage Gain:	26dB.
• Battery Type:	9 volt, Eveready 216, Burgess 2V6, Ray-O-Vac 1604, etc.
• Battery Drain:	1.2 ma.
• Battery Life:	Approximately 6 months (based on normal usage)
• Temperature Range:	-30°C to 45°C (do not subject a crystal to temperatures above 45°C (113°F, permanent damage may result).

CLEANING INSTRUCTIONS

Wipe gently with a soft damp cloth as required. A light coating of a good quality auto polish will further prevent dirt and scratches. Use mild detergent on 1104C plastic housing; wipe with clean soft cloth. CAUTION: Do not use abrasive materials or harsh chemicals at any time to clean these products.

TECHNASPECS ASTATIC MODEL 1104C & 1104CM

The new Astatic 1104C pre-amplified base station microphone offers the CB'er modern styling, modern features, along with the sound and "talk-power" made famous by the Astatic D104 for over 40 years.

An output impedance compatible with the inputs of all commercial transmitters/transceivers and adjustable high gain amplifier ensures desired modulation level. The amplifier has easily accessible slide controls for volume and tone adjustment so that the correct modulation level and tone quality can be set for each operator's voice. A master gain control, accessible only thru the open battery replacement door, can be adjusted to prevent over-modulation and distortion. The amplifier is powered by a readily available, easily replaced, 9 volt battery. Six wire coil cord allows for relay, electronic or virtually any type hookup with almost any transmitter/transceiver. The audio line is open on receive.

SPECIFICATIONS 1104C & 1104CM

• Type:	Transistorized ceramic
• Frequency Response:	Adjustable (See Fig. K)
• Output Level:	Adjustable -25dB to -75dB below 1 V/microbar open circuit, to set the correct modulation level.
• Amplifier:	Two-stage, low noise FET input, rugged silicon transistor output, gain easily adjustable with slide knob control.
• Master Gain Control:	Used to adjust maximum output.
• External Volume Control:	For external gain adjustments desired after proper adjustment of minimum output.
• Tone Control:	Easily adjusted slide knob (See Fig. B).
• Battery Type:	9 volt, Eveready 216, Burgess 1V6, Ray-O-Vac 1604, etc.
• Battery Drain:	1.5 ma.
• Battery Life:	Approximately 6 months (based on normal usage).
• Temperature Range:	-30°C to + 70°C

1104C & 1104CM VOLUME AND TONE ADJUSTMENTS

The master gain control has been preadjusted to approximately -50dB re: 1 volt/microbar with external volume and tone controls set at maximum volume and bass. The majority of applications should not require further adjustment of the master gain control for good modulation.

If additional gain is required or over-modulation is experienced, readjust the master gain control as follows. At a speaking distance of 18 inches, with the external slide volume and tone controls set in the center position, adjust the master gain control (thru the open battery replacement door) for 100% modulation. The external slide volume control may now be adjusted for proper modulation at varying distances and with different operators. The tone control should be adjusted for the most intelligible sound. Slide the tone control toward 0 for an increase in bass response and toward 10 for an increase in treble response.

METER (1104CM ONLY)

The meter indicates the incoming audio level to the microphone, not the output level, and therefore, is not affected by the volume control.

BATTERY CHECK

While holding the push-to-talk bar down, press the small push-button on the back of the microphone neck, behind the meter, and read the battery output voltage on the meter. If the pointer deflects into the red area, the battery is good. This checks the battery under actual working conditions.

GENERAL WIRING INSTRUCTIONS FOR ASTATIC T-UG9-D104, T-UP9-D104, 1104C & 1104CM

The proper wiring hookups for Astatic T-UG9-D104, T-UP9-D104 and 1104C to a number of popular CB sets are given in the chart.

To use the chart, find your transceiver in the listing and then hookup as listed to the right.

All transceivers between any two horizontal lines hookup the same. For instance the Cobra, 28, 28A, 85, 130, 131, 132A, 135, 138, 880, and 19 all wire white to pin 2, shield to pin 1, yellow - no connection, blue to pin 4, red to pin 3, and black - no connection. Also, under the hookup column, the left side is always the Astatic lead color and the right side is plug pin number, original microphone cable color, or lead function.

If your radio is not listed or if the listed hookup does not work, then these general hookup instructions may help to determine the proper connections.

There are two general hookup classifications: "ELECTRONIC" and "RELAY". Each of these may be further subdivided into those that switch control lines to ground and those that switch control lines to the plus voltage supply.

The best method for determining the proper hookup is a careful study of the transceiver schematic. If this is not possible, then the following steps can lead to the appropriate hookup.

First, determine if the transceiver is electronic or relay switching. To do this, insert a bare plug with no wires attached, into the microphone jack. Turn on the unit. If the receiver operates under this condition, the set is "relay" type switching. If the receiver does not receive, then the set is "electronic" type switching.

Any set using only three hookup connections, such as a stereo type phone plug, 3 pin plugs, or multiple pin plugs using only 3 connections, is simple relay switching to ground.

Second, check the original microphone hookup. The shield on the Astatic microphone should hook to the same point as the original shield. Third, determine which original wire is the "Audio" line. This will be the one wrapped by the shield. The Astatic white lead is the "Audio" line and will hook to the same point as the original audio line. Fourth, follow the instructions for "Relay" or "Electronic" hookups.

GENERAL "RELAY" HOOKUPS

If the transceiver uses only 3 connections, add the blue lead to the shield connection point and the red wire to the point where the third wire on the original mic was connected. Do not connect the yellow and black wires.

If the set has 4 or more wires in the hookup, check for continuity, using an ohm-meter, with the microphone keyed, between the shield and any lead other than the audio lead previously determined. If any lead is shorted to the shield when the microphone is keyed, hook the red to this connection point and the blue to the shield connection point. If continuity is not found between any leads and shield, then check between leads on the original until two are found that are shorted together when the microphone is keyed and are open when unkeyed. Hook the blue to one of these points and the red to the other. The yellow and black most probably should not be connected. Tape ends of unused leads to prevent accidental shorting inside connector or unit.

GENERAL "ELECTRONIC" HOOKUPS

For the electronic switched transceiver with 4 connections, hook the blue lead to the shield connection point and the red and black leads to the two control wire connection points. If the transceiver operates in the transmit modes as soon as the mic is plugged in, reverse the red and black leads.

If the electronic switched transceiver has more than 4 connections, use an ohm-meter to check for a lead that is open when unkeyed and shorted to the shield when keyed. If you find one switching in this manner, then check for a lead shorted to shield when unkeyed and open when the microphone is keyed. If you find these conditions then add the blue to the shield connection point, the red to the point that is grounded when keyed and the black to the point that is grounded when keyed.

If no lead in the original microphone is found to ground to the shield during receive, then the control is most probably done by switching the positive supply line. To determine this, use an ohm-meter to check between the various control line connection points to find a pair that are shorted together when the microphone is keyed and open when the microphone is unkeyed. One of these leads should also be shorted to another lead when unkeyed and open when keyed. Hook the blue lead to the connection point common to the two conditions above; hook the red lead to the point that is shorted when unkeyed. On a very few transceivers of this type, a sixth lead is grounded to shield when the microphone is unkeyed and open when microphone is keyed. If you have a control lead of this type, hook the yellow lead in place of this lead. Tape ends of unused leads to prevent accidental shorting inside connector or unit.

These general instructions, if carefully followed, will result in proper hookups for 99% of the CB transceivers. The few special types will require close study of their schematics.

CONNECTOR-CABLE CLAMPING

If the microphone plug you have selected for your hookup requirements does not have a cable clamp suitable for this small diameter high quality microphone cable, use tubing as supplied by Astatic.

Simply slip tubing over cable prior to soldering of lead wires. Position it to ensure proper clamping of cable and tubing by the connector.

NOTE: All hookups on this chart are accurate as far as possible according to the best information available to Astatic at the time of printing. Due to the large number of sets involved, it is impossible to try all of the possible combinations of microphones to sets and, therefore no guarantee is given that the hookups are correct.

SPECIAL INSTRUCTION NOTES FOR T-UP9-D104, T-UG9-D104, 1104C & 1104CM

1. A combination of the amplified stand and a high level microphone may result in over modulation (tinny or hollow sound), overly sensitive gain adjustment or a squeal when transmitting. One possible solution for this problem is to add a ½ or ⅛ watt resistor equal to ten times the input impedance of the set, in series with the white cable lead.
2. When wiring microphone cables and plugs to equipment, the color codes for the cable and for the equipment are not necessarily the same. Be careful to connect wires to the correct terminals.
3. Occasionally R.F. feedback presents problems. The solution is basically good installation.
   a. Antenna feedline standing wave radio must be low.
   b. Good grounding eliminates a "hot" transmitter chassis condition which can couple R.F. into unwanted places. On base stations multiple grounds with different length line to each ground is good practice.
   c. In stubborn cases it may be necessary to alter microphone cable length to a nonresonant length. A coil cord in lieu of a straight cable can be a solution.
   d. In extreme cases it has been found that installation of an R.F. filter in the transmitter at the audio input eliminated R.F. to audio input stage. This filter comprises a 10K ohm resistor in series and a .001 mfd. capacitor from the microphone input to ground (See Fig. C).
   e. A 2mh R.F. choke in series with the white audio line will often cure R.F. feedback problems.
4. Some transceivers (Astatic as Messenger 124) have the microphone ground at a D.C. potential differing from the outer case. With a metal housed microphone there is a possibility of shorts to the outer case, blowing fuses, or damaging equipment. When using equipment of this type, with a T-UP9, carefully remove the 3 screws holding the circuit board in place and turn over so the component side is up. Locate the bare jumper wire. Carefully remove and replace the wire with a 10 mfd. capacitor of adequate voltage rating. Carefully reinstall the circuit board. For a T-UG9 replace the black jumper from terminal 4 to the solder lug, with a 10 mf. capacitor of adequate voltage rating.
5. On initial setup it is good practice to turn gain completely down. After turning on the transmitter, slowly turn the gain up until desired modulation level is reached. This procedure aids in getting gain properly set without going through periods of excessive distortion and over modulation.
6. When using the T-UP9 stand, it will be found on a few sets that the audio line must be grounded in the receive mode to avoid hum. To do this, add a jumper between the two pads as shown in Fig. D. For a T-UG9 stand, cut the purple wire from terminal 3 and add it to terminal 5. For the 1104C and 1104CM add a jumper as shown in Fig. F.

ALARON INC. (B & B IMPORT)

Equipment	
B-4500 B-4900	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
B-4075 B-4085 B-4800 B-4950 B-5050A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
B-1025	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
B-1050 B-4050	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
B-1150	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
B-1100	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

ALLIED/KNIGHT

Equipment	
A-2507	Wh-Bk Sh-Sh Yle-N.C. Bl-Sh Red-Red Bk-Spkr
A-2530	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
A-2559 A-2561	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-N.C.
A-2533	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
KN-2560	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
KN-2590	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk

ALLIED KNIGHT (Continued)

Equipment	
A-2564 A-2568	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
A-2569	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
KN-2500 KN-2550 KN-2580 KN-2585	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-5
KN-2526 KN-2565 KN-2567	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

AMERICAN ELECTRONICS

Buccaneer	NOT COMP
SPIRIT FREEDOM	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2

ARROW

CB-788	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

AUDIOVOX

MCB-500	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
MCB-1000	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MCB-750	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-3 Bk-2
MCB-1000	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
MCB-2000	Wh-1 Sh-6 Yel-N.C. Bl-4 Red-5 Bk-3
MCB-3000	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-5 Bk-N.C.

BELTEK

W-5335F	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3

BÖHSEI

D-1325RF	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

BOMAN

CB-755 CB-750	Wh-2 Sh-4 Yel-N.C. Bl-1 Red-3 Bk-N.C.
CB-930 CB-950 CB-970 CB-910 CB-990 CB-515 CB-920	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-9900	Wh-1 Sh-5 Yel-N.C. Bl-3 Red-2 Bk-N.C.
CB-720B	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3

BOWMAN

Equipment	
CB-555 CB-725 CB-740	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-770	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.
CB-9600	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
CBR-9700 CBR-9940	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
CBR-9950	Wh-1 Sh-2 Yel-4 Bl-2 Red-3 Bk-5

BROWNING

Eagle S-23	Note 6
Mark II SSB Golden Eagle Golden Eagle Mark II Golden Eagle Mark III	Wh-1 Sh-Shell Yel-N.C. Bl-Shell Red-2 Bk-N.C.
LTD SST Brownie Sabre SST-2 Baron	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 BK-N.C.
Eaglette	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-Rec.Gnd
GOLDEN EAGLE MARK IV MARK IV A	Note 6 Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.

CARDON

Atlas Mark V Astro 23	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Command CB-727 Universe CB-747 Ventura SSB Tycoon CB-707 Glaxxie Twin Vanguard	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Phantom 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Spitfire Mark II	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
Algonquin 40	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

CHANNEL MASTER

CB-6830 CB-6835 CB-6832 CB-6834 CB-6831	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

CHRYSLER

4048076 4048077	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.

CITIZEN

BPL524-77 MPL2-77 MPL3-77 SSB-M6,M5,M3, M2	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

CLARICON

30400 (Pirate)	Wh-2 Sh-5 Yel-N.C. Bl-5 Red-4 Bk-N.C.

CLARICON (Continued)

Equipment	
30850	Wh-4 Sh-1 Yel-N Bl-1 Red-3 Bk-5
30800 (Activator) 30600 (Privateer)	Wh-2 Sh-1 Yel-N Bl-1 Red-4 Bk-3
30200	Wh-Au Sh-Gn Yel-N Bl-Gn Red-C Bk-Sp
14-523	Wh-Au Sh-Gn Yel-N Bl-Gn Red-R Bk-N.

COLT COMMUNICATIONS

290 800 1000 480 485 390 1200	Wh-1 Sh-2 Yel-N Bl-2 Red-4 Bk-3
900	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-N.
350	Wh-4 Sh-2 Yel-N Bl-3 Red-5 Bk-1
220	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-5
222	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-5

COMEX COMMUNICATION CO

CCB-770	Wh-1 Sh-6 Yel-N. Bl-6 Red-5 Bk-4

COMMAND ELECTRONICS

THE STAR	Wh-2 Sh-1 Yel-N Bl-1 Red-3 Bk-N.

COMMUNICATION POWER

CP-300 CP-2000 CP-400	Note 6 Wh-1 Sh-2 Yel-N. Bl-4 Red-3 Bk-N.C.
CP-500	Wh-1 Sh-2 Yel-N. Bl-2 Red-3 Bk-N.C.

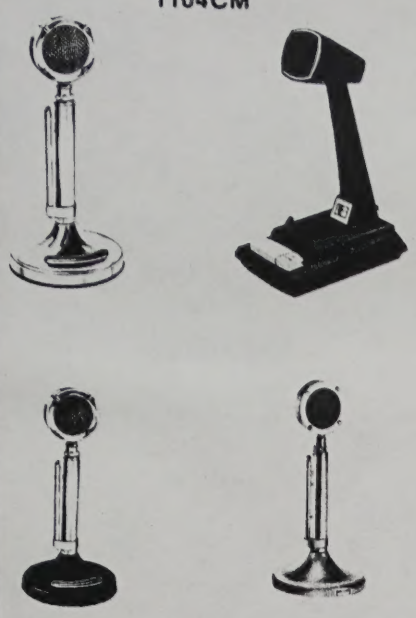
CORNELL-DUBILI

MARK X MARK 20	Wh-1 Sh-3 Yel-N. Bl-3 Red-2 Bk-N.C.
Mark 12	Wh-1 Sh-4 Yel-N. Bl-4 Red-2 Bk-3
Mark 26	Wh-2 Sh-4 Yel-N. Bl-1 Red-3 Bk-N.C.

CRAIG

4101 4102 4103 4104 4201 L101 L102 L231 L331	Wh-2 Sh-3 Yel-N.C. Bl-3 Red-5 Bk-4
L103 L104	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

HOOKUP INSTRUCTIONS FOR ASTATIC T-UG9 STAND T-UP9 STAND T-UG9-D104 T-UP9-D104 T-UP9-D104 "SILVER EAGLE" "GOLDEN EAGLE" 1104C 1104CM



THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

Form No. 90-232

TECHNASPECS ASTATIC MODELS T-UG9-D104 AND T-UP9-D104

The world famous Astatic D-1094 microphone in combination with the Astatic T-UG9 or T-UP9 stand, offers the CB'er and Ham operator the best base station power microphone available. The stands have a built-in two stage transistor amplifier with an output impedance suitable for the inputs of all commercial transmitters and transceivers. The high gain amplifier along with the tailored response ensures excellent talk-power, intelligibility and full modulation. The amplifier gain control is recessed to avoid accidental changes. A 6-wire coil cord for universal hookup applications is standard on both stands.

The T-UG9-D104 is finished in durable polished chrome with a gray Hammerlin base. The "Silver Eagle" has all the features of the T-UG9-D104 plus a "Silver Eagle" etched on the back plate, a pre-to-talk bar, and is finished in bright chrome plate.

SPECIFICATIONS

• D-104 Microphone:	High quality metal sealed type crystal.
• Microphone Receptacle:	On top of stem offers instant microphone change versability.
• Frequency Response:	See Fig. J
• Output Level:	-20dB re 1 V/microbar, open circuit.
• Amplifier Voltage Gain:	26dB
• Battery Type:	9 volt, Eveready 216, Burgess 2V6, Ray-O-Vac 1604, etc.
• Battery Drain:	1.2 ma.
• Battery Life:	Approximately 6 months (based on normal usage)
• Temperature Range:	-30°C to 45°C (do not subject a crystal to temperatures above 45°C (113°F, permanent damage may result).

CLEANING INSTRUCTIONS

Wipe gently with a soft damp cloth as required. A light coating of a good quality auto polish will further prevent dirt and scratches. Use mild detergent on 1104C plastic housing; wipe with clean soft cloth. CAUTION: Do not use abrasive materials or harsh chemicals at any time to clean these products.

TECHNASPECS ASTATIC MODEL 1104C & 1104CM

The new Astatic 1104C pre-amplified base station microphone offers the CB'er modern styling, modern features, along with the sound and "talk-power" made famous by the Astatic D104 for over 40 years.

An output impedance compatible with the inputs of all commercial transmitters/transceivers and adjustable high gain amplifier ensures desired modulation level. The amplifier has easily accessible slide controls for volume and tone adjustment so that the correct modulation level and tone quality can be set for each operator's voice. A master gain control, accessible only thru the open battery replacement door, can be adjusted to prevent over-modulation and distortion. The amplifier is powered by a readily available, easily replaced, 9 volt battery. Six wire coil cord allows for relay, electronic or virtually any type hookup with almost any transmitter/transceiver. The audio line is open on receive.

SPECIFICATIONS 1104C & 1104CM

• Type:	Transistorized ceramic
• Frequency Response:	Adjustable (See Fig. K)
• Output Level:	Adjustable, -25dB to -75dB below 1 V/microbar open circuit, to set the correct modulation level.
• Amplifier:	Two-stage, low noise FET input, rugged silicon transistor output, gain easily adjustable with slide knob control.
• Master Gain Control:	Used to adjust maximum output.
• External Volume Control:	For external gain adjustments desired after proper adjustment of minimum output.
• Tone Control:	Easily adjusted slide knob (See Fig. B)
• Battery Type:	9 volt; Eveready 216, Burgess 1V6, Ray-O-Vac 1604, etc.
• Battery Drain:	1.5 ma.
• Battery Life:	Approximately 6 months (based on normal usage).
• Temperature Range:	-30°C to + 70°C

1104C & 1104CM VOLUME AND TONE ADJUSTMENTS

The master gain control has been preadjusted to approximately -50dB re: 1 volt/microbar with external volume and tone controls set at maximum volume and bass. The majority of applications should not require further adjustment of the master gain control for good modulation.

If additional gain is required or over-modulation is experienced, readjust the master gain control as follows. At a speaking distance of 18 inches, with the external slide volume and tone controls set in the center position, adjust the master gain control (thru the open battery replacement door) for 100% modulation. The external slide volume control may now be adjusted for proper modulation at varying distances and with different operators. The tone control should be adjusted for the most intelligible sound. Slide the tone control toward 0 for an increase in bass response and toward 10 for an increase in treble response.

METER (1104CM ONLY)

The meter indicates the incoming audio level to the microphone, not the output level, and therefore, is not affected by the volume control.

BATTERY CHECK

While holding the push-to-talk bar down, press the small push-button on the back of the microphone neck, behind the meter, and read the battery output voltage on the meter. If the pointer deflects into the red area, the battery is good. This checks the battery under actual working conditions.

GENERAL WIRING INSTRUCTIONS FOR ASTATIC T-UG9-D104, T-UP9-D104, 1104C & 1104CM

The proper wiring hookups for Astatic T-UG9-D104, T-UP9-D104 and 1104C to a number of popular CB sets are given in the chart.

To use the chart, find your transceiver in the listing and then hookup as listed to the right.

All transceivers between any two horizontal lines hookup the same. For instance the Cobra: 28, 28A, 85, 130, 131, 132A, 135, 139, 680, and 19 all wire white to pin 2, shield to pin 1, yellow - no connection, blue to pin 4, red to pin 3, and black - no connection. Also, under the hookup column, the left side is always the Astatic lead color and the right side is plug pin number, original microphone cable color, or lead function.

If your radio is not listed or if the listed hookup does not work, then these general hookup instructions may help to determine the proper connections.

There are two general hookup classifications: "ELECTRONIC" and "RELAY". Each of these may be further subdivided into those that switch control lines to ground and those that switch control lines to the plus voltage supply.

The best method for determining the proper hookup is a careful study of the transceiver schematic. If this is not possible, then the following steps can lead to the appropriate hookup.

First, determine if the transceiver is electronic or relay switching. To do this, insert a bare plug with no wires attached, into the microphone jack. Turn on the unit. If the receiver operates under this condition, the set is "relay" type switching. If the receiver does not receive, then the set is "electronic" type switching.

Any set using only three hookup connections, such as a stereo type phone plug, 3 pin plugs, or multiple pin plugs using only 3 connections, is simple relay switching to ground.

Second, check the original microphone hookup. The shield on the Astatic microphone should hook to the same point as the original shield. Third, determine which original wire is the "Audio" line. This will be the one wrapped by the shield. The Astatic white lead is the "Audio" line and will hook to the same point as the original audio line. Fourth, follow the instructions for "Relay" or "Electronic" hookups.

GENERAL "RELAY" HOOKUPS

If the transceiver uses only 3 connections, add the blue lead to the shield connection point and the red wire to the point where the third wire on the original mic was connected. Do not connect the yellow and black wires.

If the set has 4 or more wires in the hookup, check for continuity using an ohm-meter, with the microphone keyed, between the shield and any lead other than the audio lead previously determined. If any lead is shorted to the shield when the microphone is keyed, hook the red to this connection point and the blue to the shield connection point. If continuity is not found between any leads and shield, then check between leads on the original until two are found that are shorted together when the microphone is keyed and are open when unkeyed. Hook the blue to one of these points and the red to the other. The yellow and black most probably should not be connected. Tape ends of unused leads to prevent accidental shorting inside connector or unit.

GENERAL "ELECTRONIC" HOOKUPS

For the electronic switched transceiver with 4 connections, hook the blue lead to the shield connection point and the red and black leads to the two control wire connection points. If the transceiver operates in the transmit modes as soon as the mic is plugged in, reverse the red and black leads.

If the electronic switched transceiver has more than 4 connections, use an ohm-meter to check for a lead that is open when unkeyed and shorted to the shield when keyed. If you find one switching in this manner, then check for a lead shorted to shield when unkeyed and open when the microphone is keyed. If you find these conditions then add the blue to the shield connection point, the red to the point that is grounded when keyed and the black to the point that is grounded when keyed.

If no lead in the original microphone is found to ground to the shield during receive, then the control is most probably done by switching the positive supply line. To determine this, use an ohm-meter to check between the various control line connection points to find a pair that are shorted together when the microphone is keyed and open when the microphone is unkeyed. One of these leads should also be shorted to another lead when unkeyed and open when keyed. Hook the blue lead to the connection point common to the two conditions above; hook the red lead to the point that is shorted when unkeyed. On a very few transceivers of this type, a sixth lead is grounded to shield when the microphone is unkeyed and open when microphone is keyed. If you have a control lead of this type, hook the yellow lead in place of this lead. Tape ends of unused leads to prevent accidental shorting inside connector or unit.

These general instructions, if carefully followed, will result in proper hookups for 99% of the CB transceivers. The few special types will require close study of their schematics.

CONNECTOR-CABLE CLAMPING

If the microphone plug you have selected for your hookup requirements does not have a cable clamp suitable for this small diameter high quality microphone cable, use tubing as supplied by Astatic.

Simply slip tubing over cable prior to soldering of lead wires. Position it to ensure proper clamping of cable and tubing by the connector.

NOTE: All hookups on this chart are accurate as far as possible according to the best information available to Astatic at the time of printing. Due to the large number of sets involved, it is impossible to try all of the possible combinations of microphones to sets and, therefore no guarantee is given that the hookups are correct.

SPECIAL INSTRUCTION NOTES FOR T-UP9-D104, T-UG9-D104, 1104C & 1104CM

1. A combination of the amplified stand and a high level microphone may result in over modulation (tinny or hollow sound), overly sensitive gain adjustment or a squeal when transmitting. One possible solution for this problem is to add a ¼ or ½ watt resistor equal to ten times the input impedance of the set, in series with the white cable lead.
2. When wiring microphone cables and plugs to equipment, the color codes for the cable and for the equipment are not necessarily the same. Be careful to connect wires to the correct terminals.
3. Occasionally R.F. feedback presents problems. The solution is basically good installation.
   a. Antenna feedline standing wave radio must be low.
   b. Good grounding eliminates a "hot" transmitter chassis condition which can couple R.F. into unwanted places. On base stations multiple grounds with different length line to each ground is good practice.
   c. In stubborn cases it may be necessary to alter microphone cable length to a nonresonant length. A coil cord in lieu of a straight cable can be a solution.
   d. In extreme cases it has been found that installation of an R.F. filter in the transmitter at the audio input eliminated R.F. to audio input stage. This filter comprises a 10K ohm resistor in series and a .001 mfd. capacitor from the microphone input to ground (See Fig. C).
   e. A 2mh R.F. choke in series with the white audio line will often cure R.F. feedback problems.
4. Some transceivers (such as Messenger 124) have the microphone ground at a D.C. potential differing from the outer case. With a metal housed microphone there is a possibility of shorts to the outer case, blowing fuses, or damaging equipment. When using equipment of this type, with a T-UP9, carefully remove the 3 screws holding the circuit board in place and turn over so the component side is up. Locate the bare jumper wire. Carefully remove and replace the wire with a 10 mfd. capacitor of adequate voltage rating. Carefully reinstall the circuit board. For a T-UG9 replace the black jumper from terminal 4 to the solder lug, with a 10 mf. capacitor of adequate voltage rating.
5. On initial setup it is good practice to turn gain completely down. After turning on the transmitter, slowly turn the gain up until desired modulation level is reached. This procedure aids in getting gain properly set without going through periods of excessive distortion and over modulation.
6. When using the T-UP9 stand, it will be found on a few sets that the audio line must be grounded in the receive mode to avoid hum. To do this, add a jumper between the two pads as shown in Fig. D. For a T-UG9 stand, cut the purple wire from terminal 3 and add it to terminal 5. For the 1104C and 1104CM add a jumper as shown in Fig. F.

ALARON INC. (B & B IMPORT)

Equipment	
B-4500 B-4900	Wh-2 Sh-1 Yel-N C Bl-1 Red-3 Bk-4
B-4075 B-4085 B-4800 B-4950 B-5050A	Wh-1 Sh-4 Yel-N C Bl-3 Red-2 Bk-5
B-1025	Wh-1 Sh-4 Yel-N C Bl-3 Red-2 Bk-N C
B-1050 B-4050	Wh-3 Sh-4 Yel-N C Bl-4 Red-2 Bk-1
B-1150	Wh-1 Sh-2 Yel-N C Bl-2 Red-3 Bk-N C
B-1100	Wh-1 Sh-2 Yel-N C Bl-4 Red-3 Bk-N C

ALLIED/KNIGHT

Equipment	
A-2507	Wh-Bk Sh-Sh Yle-N.C. Bl-Sh Red-Red Bk-Spkr
A-2530	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
A-2559 A-2561	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-N.C.
A-2533	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
KN-2560	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
KN-2590	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk

ALLIED KNIGHT (Continued)

Equipment	
A-2564 A-2568	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
A-2569	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
KN-2500 KN-2550 KN-2580 KN-2585	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-5
KN-2526 KN-2565 KN-2567	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

AMERICAN ELECTRONICS

Buccaneer	NOT COMP
SPIRIT FREEDOM	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2

ARROW

CB-788	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

AUDIOVOX

MCB-500	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
MCB-1000	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MCB-750	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-3 Bk-2
MCB-1000	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
MCB-2000	Wh-1 Sh-6 Yel-N.C. Bl-4 Red-5 Bk-3
MCB-3000	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-5 Bk-N.C.

BELTEK

W-5335F	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3

BOHSEI

D-1325RF	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

BOMAN

CB-755 CB-750	Wh-2 Sh-4 Yel-N.C. Bl-1 Red-3 Bk-N.C.
CB-930 CB-950 CB-970 CB-910 CB-990 CB-515 CB-920	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-9900	Wh-1 Sh-5 Yel-N.C. Bl-3 Red-2 Bk-N.C.
CB-720B	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3

BOWMAN

Equipment	
CB-555 CB-725 CB-740	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-770	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.
CB-9600	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
CBR-9700 CBR-9840	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
CBR-9950	Wh-1 Sh-2 Yel-4 Bl-2 Red-3 Bk-5

BROWNING

Eagle S-23 Mark II SSB Golden Eagle Golden Eagle Mark II Golden Eagle Mark III	Note 6 Wh-1 Sh-Shell Yel-N.C. Bl-Shell Red-2 Bk-N.C.
LTD SST Brownie Sabre SST-2 Baron	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 BK-N.C.
Eaglette	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-Rec.Gnd
GOLDEN EAGLE MARK IV MARK IV A	Note 6 Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.

CARDON

Atlas Mark V Astro 23	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Command CB-727 Universe CB-747 Ventura SSB Tycoon CB-707 Glaaxie Twin Vanguard	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Phantom 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Spitfire Mark II	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
Algonquin 40	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

CHANNEL MASTER

CB-6830 CB-6835 CB-6832 CB-6834 CB-6831	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

CHRYSLER

4048076 4048077	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.

CITIZEN

BPL524-77 MPL2-77 MPL3-77 SSB-M6,M5,M3, M2	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

CLARICON

30400 (Pirate)	Wh-2 Sh-5 Yel-N.C. Bl-5 Red-4 Bk-N.C.

CLARICON (Continued)

Equipment	
30850	Wh-4 Sh-1 Yel-N Bl-1 Red-3 Bk-5
30800 (Activator) 30600 (Privateer)	Wh-2 Sh-1 Yel-N Bl-1 Red-4 Bk-3
30200	Wh-A Sh-Gn Yel-N Bl-Gn Red-C Bk-Sp
14-523	Wh-A Sh-Gn Yel-N Bl-Gn Red-R Bk-N

COLT COMMUNICATIONS

290 800 1000 480 485 390 1200	Wh-1 Sh-2 Yel-N Bl-2 Red-4 Bk-3
900	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-N
350	Wh-4 Sh-2 Yel-N Bl-3 Red-5 Bk-1
220	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-5
222	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-5

COMEX COMMUNICATION CO

CCB-770	Wh-1 Sh-6 Yel-N. Bl-6 Red-5 Bk-4

COMMAND ELECTRONICS

THE STAR	Wh-2 Sh-1 Yel-N Bl-1 Red-3 Bk-N

COMMUNICATION POWER

CP-300 CP-2000 CP-400	Note 6 Wh-1 Sh-2 Yel-N Bl-4 Red-3 Bk-N.C
CP-500	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-N.C

CORNELL - DUBILI

MARK X MARK 20	Wh-1 Sh-3 Yel-N Bl-3 Red-2 Bk-N C
Mark 12	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-3
Mark 26	Wh-2 Sh-4 Yel-N C Bl-1 Red-3 Bk-N C

CRAIG

4101 4102 4103 4104 4201 L101 L102 L231 L331	Wh-2 Sh-3 Yel-N C Bl-3 Red-5 Bk-4
L103 L104	Wh-2 Sh-1 Yel-N C Bl-1 Red-3 Bk-4

CRAIG (Continued)

Equipment	
132	Wh-1
232	Sh-2
	Yel-N.C.
	Bl-4
	Red-5
	Bk-3

DELCO

BD-10	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
77 Series	Wh-1
79 Series	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
78 Series	Wh-1
BFMC1	Sh-5
BFPC1	Yel-N.C.
YFMC1	Bl-2
	Red-4
	Bk-3

DEMCO

ATELITE	Wh-2
RAVELIER	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.
atelite	Wh-4
eluxe	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-2
avelle	Wh-Ring
	Sh-Sleeve
	Yel-N.C.
	Bl-Sleeve
	Red-Tip
	Bk-N.C.

DYNASCAN (B & K)

obra 20	Wh-Audio
obra 24	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.
obra 6	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Control
	Bk-Spkr
obra 89GTL	Wh-2
obra 21	Sh-1
obra 29	Yel-N.C.
m 89	Bl-1
obra 19	Red-3
obra 21 XLR	Bk-4
obra 77X	
obra 29 XLR	
obra 89 XLR	
obra 21GTL	
obra 25GTL	
obra 19 GTL	
obra 78X	
obra 1000GTL	
obra 87GTL	
obra 146-GTL	
obra 23	Wh-Audio
obra 27	Sh-Gnd
obra V	Yel-N.C.
	Bl-Gnd
	Bk-Spkr
	Red-Control
obra 25	Wh-3
	Sh-1
	Yel-N.C.
	Bl-4
	Red-2
	Bk-N.C.
obra 28A	Wh-2
obra 28	Sh-1
obra 130	Yel-N.C.
obra 131	Bl-4
obra 132	Red-3
obra 135	Bk-N.C.
obra 880	
obra 139	
obra 132A	
obra 85	
obra 135 XLR	
obra 29GTL	
obra 46 XLR	
obra 32 XLR	
obra 139 XLR	
obra 138 XLR	
obra 85 XLR	
um 88	Note 6
obra 98	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
obra 138	Wh-Tip
obra 138A	Sh-Sleeve
	Yel-N.C.
	Bl-Sleeve
	Red-Ring
	Bk-N.C.
obra 45 XLR	Wh-2
obra	Sh-1
146-GTL-DX	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.
obra 140GTL	Wh-1
obra 142GTL	Sh-2
obra 2000GTL	Yel-N.C.
obra 148GTL	Bl-4
	Red-5
	Bk-3
obra 19X	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-5

EICO

Equipment	
7723	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

FANON/COURIER

Citation	Wh-1
Classic II	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
Fleet Courier	Wh-3
Courier 23+	Sh-4
Royale	Yel-N.C.
Courier 23	Bl-4
Fleet Courier	Red-2
30B	Bk-N.C.
Chief 23	Wh-4
	Sh-3
	Yel-N.C.
	Bl-3
	Red-1
	Bk-2
Courier 1M	Note 6
	Wh-3
	Sh-4
	Yel-N.C.
	Bl-2
	Red-4
	Bk-1
Classic III	Wh-2
Redball	Sh-4
Cruiser	Yel-N.C.
	Bl-4
	Red-3
	Bk-1
SFT-800A	Wh-Audio
Courier TR-5	Sh-Gnd
Traveller	Yel-N.C.
	Bl-Gnd
	Red-Volt
	Source
	Bk-Spkr
	Xfmr
Ranger 23	Wh-3
Raveller II	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-1
Cadet 23	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.
Carvelle	Wh-Tip
Centurion	Sh-Sleeve
Conquerer	Yel-N.C.
Gladiator	Bl-Sleeve
Spartan SSB	Red-Ring
Caravelle II	Bk-N.C.
Conquerer II	
Fanfare 680	
Fanfare 350F	
Rebel 23+	Wh-Yel
Fan Fare 100	Sh-Sh
	Yel-N.C.
	Bl-SH
	Red-Red
	Bk-Bl
SFT 600	Wh-2
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.
SFT 400	Wh-1
SFT 500	Sh-2
Fanfare 700	Yel-N.C.
	Bl-2
	Red-3
	Bk-5
COMET 23	Wh-2
SFT-700	Sh-1
SFT 900	Yel-N.C.
(Guardsman)	Bl-1
	Red-4
	Bk-3
Classic PLL 40	Wh-2
Caravelle 40D	Sh-4
Fanfare 880DF	Yel-N.C.
Conqueror 40D	Bl-4
Fanfare 185 DF	Red-3
Fanfare 184 DF	Bk-1
Fanfare 182 F	
Fanfare 125 F	
Rangler 40D	
Blazer 40D	
Renegade 40	
Rogue 40	
FANFARE 120	Wh-Yel
	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Wh
	Bk-Bk
Rebel 40A	Wh-Wh
Fanfare 100F1	Sh-Sh
Rebel PLL	Yel-N.C.
	Bl-Sh
	Red-Red
	Bk-Bk
Galaxy	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-5
	Bk-3

FIELDMASTER

Equipment	
Micro Mini 3	Wh-1
Micro Mini 6	Sh-6
Micro Mini 23	Yel-2
	Bl-4
	Red-5
	Bk-3
TR-18A	Wh-1
TR-18M	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
MF-1001	Wh-5
	Sh-2
	Yel-N.C.
	Bl-2
	Red-1
	Bk-N.C.

GM

GM 123A	Wh-Wh
99 5432	Sh-Sh
4120	Yel-Yel
4145	Bl-Red
4175	Red-Bl
4230	Bk-Bk
CBD-12	Wh-Wh
7898540	Sh-Sh
	Yel-Yel
	Bl-Bk
	Red-Bl
	Bk-Or
GM 23B	Wh-4
	Sh-3
	Yel-N.C.
	Bl-3
	Red-1
	Bk-2
CBD-10	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
GM 23C	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

GEMTRONICS

GTX-3000	Wh-1
	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-5
GTX-23	Wh-1
GTX-36	Sh-2
3325	Yel-N.C.
GR 11930	Bl-2
GTX-3323	Red-4
GTX-4040	Bk-3
GTX-2325	Wh-1
GR-11935	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
GTX-2300	Wh-1
CB-11923	Sh-4
GTX-5000	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
GT-44	Wh-1
GTX-55	Sh-2
GTX-77	Yel-N.C.
GTX-66	Bl-2
	Red-4
	Bk-3
GT-230	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-4

GENERAL ELECTRIC

3-5800A	Wh-4
3-5810A	Sh-1
3-5804A	Yel-N.C.
	Bl-1
	Red-3
	Bk-5
3-5801A	Wh-4
3-5811B	Sh-1
3-5804,B,D,G	Yel-N.C.
3-5809	Bl-1
3-5871	Red-3
3-5810B	Bk-5
3-5871A	
3-5818A	
3-5871B	
3-5806A	
3-5816	Wh-1
3-5812A	Sh-2
3-5819	Yel-N.C.
3-5825A	Bl-2
3-5802	Red-4
3-5813	Bk-3
3-5814	
3-5821	
3-5869	
3-5819A	
3-5821A	
3-5813A, B	
3-5814A, B	
3-5869A	
3-5873	
3-5875A	
3-5825B	
3-5817A	

GENERAL ELECTRIC (Continued)

Equipment	
3-5830A	Wh-4
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-N.C.

GRANADA

CB-7	Wh-2
FCB-27	Sh-1
	Yel-N.C.
	Bl-1
	Red-4
	Bk-N.C.
CB-4	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-5

HALLICRAFTERS

261	Wh-1
	Sh-4
	Yel-N.C.
	Bl-6
	Red-3
	Bk-5

HANDIC

2305	Wh-2
	Sh-1
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
240	Wh-1
	Sh-3
	Yel-5
	Bl-6
	Red-2
	Bk-4
230	Wh-4
	Sh-3
	Yel-1
	Bl-2
	Red-6
	Bk-5
235	NOT COMP
305	
605	
605 DL	
3605	

HITACHI

CM-2375H	Wh-4
CM-2400C	Sh-1
CM-2400H	Yel-N.C.
CM-2425H	Bl-2
CM-4800C	Red-3
CM-4800H	Bk-5

HY-GAIN

603 (23 plus)	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
672	Wh-1
(Hy Range III)	Sh-2
673	Yel-N.C.
(Hy Range IV)	Bl-2
674	Red-3
(Hy Range V)	Bk-N.C.
670	Wh-1
(Hy Range I)	Sh-4
671	Yel-N.C.
(Hy Range II)	Bl-3
671A	Red-2
	Bk-5
2680	Wh-1
2681	Sh-3
2682	Yel-N.C.
670B	Bl-3
671B	Red-2
672B	Bk-5
673B	
674B	
681	
682	
683	
2683	
2701	
2702	
2703	
2705	
3077	
3078	
3084	
3087	
3107	
3114	
623	Wh-Ring
Utopia	Sh-Sleeve
	Yel-N.C.
	Bl-Sleeve
	Red-Tip
	Bk-N.C.
2679	NOT COMP
Hy-Gain 9	
2679A	

J. I. L.

606CB	Wh-1
	Sh-2
	Yel-N.C.
	Bl-5
	Red-3
	Bk-N.C.

JANA ELECTRONICS LTD.

Equipment	
KJSSB-100	Wh-3
(Dominator)	Sh-2
	Yel-N.C.
	Bl-2
	Red-1
	Bk-N.C.
KJCB-32	Wh-Ring
(Aggressor)	Sh-Sleeve
	Yel-N.C.
	Bl-Sleeve
	Red-Tip
	Bk-N.C.
KJCB-91	Wh-2
(Interceptor)	Sh-1
KJCB-91	Yel-N.C.
(Vindicator)	Bl-1
KJCB-520	Red-3
(Avenger)	Bk-4
KJCB-420	
(Initiator)	
KJCB-440	
(Activator)	

E. F. JOHNSON

Messenger I	Wh-Wh
Messenger II	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Bk
	Bk-Red
Messenger 100	Wh-Audio
Messenger 110	Sh-Gnd
Messenger 123	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-Spkr
Messenger 223	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-3
	Bk-2
Messenger 351	Wh-Audio
Messenger III	Sh-Gnd
Messenger 300	Yel-N.C.
Messenger 320	Bl-Gnd
Messenger 323	Red-Relay
Messenger 323M	Bk-N.C.
Messenger 124	Wh-1
Messenger 124M	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
Messenger 120	*
Messenger 121	Wh-Wh
Messenger 210T	Sh-Red
Messenger 120A	Yel-Yel
Messenger 121A	Bl-Red
	Red-Bl

*On T-UG9 and Golden Eagle, replace Black Jumper from Term. 4 to Ground by a 10 uf 16VDC Capacitor.

Messenger 4135	Wh-Wh
Messenger 132	Sh-Sh
Messenger 123A	Yel-Yel
Messenger 123B	Bl-Red
Messenger 123SJ	Red-Bl
Messenger 125	Bk-Bk
Messenger 323A	
Messenger 4140	
Messenger 4145	
Messenger 191	
Messenger 4120	
Messenger 4230	
Viking 200	
Messenger 122	
Messenger 250	Wh-1
	Sh-Case
	Yel-4
	Bl-2
	Red-5
	Bk-3
Messenger 350	Consult
	Astatic
Viking 352	Wh-1
Viking 352D	Sh-Shell
Messenger 4740	Yel-N.C.
	Bl-5
	Red-2
	Bk-N.C.
Messenger 130	Wh-1
Messenger 130A	Sh-5
Messenger 132	Yel-N.C.
	Bl-3
	Red-4
	Bk-N.C.
121A	Wh-Wh
	Sh-Sh
	Yel-N.C.
	Bl-Brn
	Red-Bl
	Bk-Bk
Messenger 4170	Wh-1
Messenger 4175	Sh-6
Viking 260	Yel-4
Viking 270	Bl-2
Viking 230	Red-5
Viking 430	Bk-3
Messenger 40	
Messenger 80	
Messenger 50	
4250	Wh-2
	Sh-6
	Yel-N.C.
	Bk-4
	Red-3
	Bk-N.C.
Messenger 4730	Wh-1
	Sh-5
	Yel-N.C.
	Bl-5
	Red-2
	Bk-N.C.

KENWOOD

Equipment	
TS-520	Wh-1
T-599A	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
TS-820	Wh-1
	Sh-4
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.

KRACO

2310	Wh-1
2320	Sh-2
2330	Yel-N.C.
2345	Bl-2
2355	Red-4
2320A	Bk-3
2320B	
KCB-4010	
KCB-4020	
KCB-4030	
KCB-4005	
KCB-4045	
KCB-2370	Wh-5
	Sh-3
	Yel-N.C.
	Bl-3
	Red-1
	Bk-N.C.
KCB-1401	Wh-1
KCB-4003	Sh-4
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
KCB 4070	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
KCB-1307	Wh-1
	Sh-6
	Yel-2
	Bl-4
	Red-5
	Bk-3
KCB-4088	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-4
KCB-4004	Wh-2
	Sh-1
	Yel-N.C.
	Bl-1
	Red-3
	Bk-4
KCB-4000	Wh-Yel
	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Red
	Bk-Vio
KCB-4001	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

KRIS

T23B	Wh-Audio
99ER	Sh-Gnd
Vega	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.
XL-23	Wh-1
XL-23A	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
23+	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
Ventura	Wh-1
Valiant	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-4
Victor	Wh-1
Victor II	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-4
XL-25	Wh-1
XL-70	Sh-2
XL-50	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.

KRYPTON

Beta I	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

LAFAYETTE

Equipment	
Comstat 19	Wh-1
Comstat 23	Sh-4
Mark V	Yel-N.C.
Mark VI	Bl-4
HB 400	Red-2
HB444	Bk-3
HB 444/25A	
Comstat 23	Wh-1
Comstat 25A	Sh-4
Comstat 25B	Yel-N.C.
Comstat 35	Bl-3
	Red-2
	Bk-N.C.
HA 100	Wh-3
HB 111	Sh-2
HB 222	Yel-N.C.
HE 20 AWX	Bl-4
HE 20B	Red-1
HE 20C	Bk-N.C.
HE 20WX	
HB 200	Wh-3
	Sh-4
	Yel-N.C.
	Bl-2
	Red-1
	Bk-N.C.
Micro 923	Wh-Audio
HE 20TA	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.
HB 700	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl- + 13V
	Source
	Red- = 13V
	Trans.
	Supply
	Bk- + 13V
	Rec.
	Supply

Fig. 1 — Use the pin numbering sequence below for the radios below. The diagram shows the plug as viewed from the rear where the wires attach.

HA 450	Wh-1
HB 23	Sh-3
HB 23A	Yel-N.C.
HB 500	Bl-2
HB 501	Red-4
HB 502A	Bk-N.C.
HB 525A	
HB 525B	
HB 525C	
HB 525D	
HB 525E	
HB 525F	
HB 555	
HB 600	
HB 625A	
HE 20T	
Micro 12	
Micro 23	
Telsat 23	
Telsat 25	
Telsat SSB 25	
Telsat 50	
Telsat SSB 50	
Telsat SSB 50A	
Telsat 150	
Telsat 924	
Telsat 925	
HB 115A	Wh-3
	Sh-4
	Yel-N.C.
	Bl-4
	Red-5
	Bk-1
HB 333	Wh-3
HE 90	Sh-4
	Yel-N.C.
	Bl-4
	Red-1
	Bk-5
Micro 66	Wh-1
	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-N.C.
Telsat SSB-60	Wh-1
Micro 723	Sh-4
Telsat SSB-120	Yel-N.C.
Telsat 1140	Bl-3
Telsat 1050	Red-2
Telsat 1000	Bk-5
HB-640	
HB-650	
HB-740	
HB-750	
HB-940	
HB-950	
Telstat SSB-140	
HB-4000	Wh-1
	Sh-2
	Yel-5
	Bl-2
	Red-3
	Bk-4
LM-200	Wh-1
LMS-40	Sh-2
Telsat-1240	Yel-N.C.
	Bl-2
	Red-4
	Bk-N.C.
LM-100	Wh-1
LM-300	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
Comatet-525	Wh-1
	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-5

LAFAYETTE (Continued)

Equipment	
Telsat 1023	Wh-1
	Sh-4
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
Com-Phone 23	Wh-1
Com-Phone	Sh-3
Mark II	Yel-N.C
	Bl-3
	Red-2
	Bk-N.C.
Micro 223	Wh-1
Publican I	Sh-4
HB-550	Yel-N.C.
	Bl-3
	Red-2
	Bk-5
Telstat	Wh-1
SSB-100	Sh-4
Telsat SSB-75	Yel-N.C.
Micro 223A	Bl-3
	Red-2
	Bk-5

MIDLAND

13-845	Wh-Tip
13-868	Sh-Sleeve
13-874	Yel-N.C.
13-876	Bl-Sleeve
13-877	Red-Ring
13-878	Bk-N.C.
13-880	
13-885	
13-891	
13-880B	
13-870C	Wh-Ring
13-870D	Sh-Sleeve
13-871	Yel-N.C.
13-872	Bl-Sleeve
13-873	Red-Tip
	Bk-N.C.
13-890	Wh-Audio
13-881	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Relay
	Bk-N.C.
13-898	Wh-1
13-898B	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
13-893	Wh-1
13-895	Sh-2
13-881B	Yel-N.C.
79-893	Bl-3
	Red-4
	Bk-N.C.
13-894	Wh-1
13-896	Sh-2
	Yel-N.C.
	Bl-4
	Red-3
	Bk-5
13-854	Wh-Red
13-801	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Wh
	Bk-Bk
13-800	Wh-Red
	Sh-Sh
	Yel-N.C.
	Bl-Bl
	Red-Wh
	Bk-N.C.
13-887	Wh-1
13-863	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-N.C.
13-150	Wh-Audio
13-800	Sh-Ch. Gnd
	Yel-N.C.
	Bl-Ckt. Gnd
	Red-Relay
	Bk-N.C.
13-869	Wh-Audio
	Sh-Gnd
	Yel-N.C.
	Bl-Gnd
	Red-Control
	Bk-Spkr
13-856	Wh-Wh
	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Grn
	Bk-Red
13-864	Wh-1
13-879	Sh-2
13-883	Yel-N.C.
13-883B	Bl-2
77-883	Red-3
	Bk-4
13-867	Wh-1
13-884	Sh-2
77-824B	Yel-N.C.
77-005	Bl-2
	Red-4
	Bk-3
13-855	Wh-Wh
	Sh-Sh
	Yel-N.C.
	Bl-Sh
	Red-Red
	Bk-Bk

MIDLAND (Continued)

Equipment	
13-882	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-5
13-888	Wh-1
77-888	Sh-2
13-888 B	Yel-N.C.
	Bl-5
	Red-3
	Bk-4
77-838	Wh-2
77-849	Sh-7
	Yel-N.C.
	Bl-6
	Red-4
	Bk-12
79-892	NOT REC
	**
	Wh-1
	Sh-4
	Yel-N.C.
	Bl-4
	Red-6
	Bk-3

**No mics may be used for sideband operation since a clarifier control is required. They should work okay for A.M. however.

13-955	NOT COMP
77-899	
77-889	
13-862	Wh-1
13-862B	Sh-2
13-852	Yel-N.C.
13-853	Bl-2
13-866	Red-4
13-879B	Bk-3
78-574	
77-830	Wh-1
77-882	Sh-2
77-857	Yel-N.C.
13-830	Bl-2
13-857	Red-4
13-858	Bk-3
13-863B	
13-862B	
13-892	
13-882C	
76-999	
77-824C	
79-891	
77-150	
77-004	
76-858	
77-825	
76-863	
13-976	
13-857B	
78-976	
77-101B, C	
77-953	
77-859	
77-860	
13-886	Wh-1
76-886	Sh-3
	Yel-N.C.
	Bl-3
	Red-2
	Bk-5
13-884	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-4
	Bk-3
63-240	Wh-1
	Sh-2
	Yel-N.C.
	Bl-2
	Red-3
	Bk-4&5
77-102	Wh-1
151M	Sh-4
	Yel-N.C.
	Bl-4
	Red-2
	Bk-5

MONTGOMERY WARD

774	Wh-1
702 A	Sh-2
775A	Yel-N.C.
Gen-828A	Bl-2
Gen 730A	Red-4
	Bk-N.C.
Gen 716A	Wh-1
Gen 696A	Sh-2
Gen 680A	Yel-N.C.
	Bl-2
	Red-4
	Bk-3

MOTOROLA

T-4000A	NOT COMP
T-4005A	
T4010A	
T4020A	
CF925AX	
CF520/521	
CT950A	
T4009A	
T4025A	

NUVOX

CB-7000	Wh-1
	Sh-4
	Yel-N.C.
	Bl-3
	Red-2
	Bk-N.C.
TC-5020	Wh-1
	Sh-6
	Yel-2
	Bl-4
	Red-5
	Bk-3

CRAIG (Continued)

Equipment

132 232	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

DELCO

BD-10	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
977 Series 979 Series	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
978 Series BFMC1 BFPC1 YFMC1	Wh-1 Sh-5 Yel-N.C. Bl-2 Red-4 Bk-3

DEMCO

ATELITE RAVELIER	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
atelite eluxe	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-2
avelle	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

DYNASCAN (B & K)

bra 20 bra 24	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
bra 6	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
bra 89GTL bra 21 bra 29 m 89 bra 19 bra 21 XLR bra 77X bra 29 XLR bra 89 XLR bra 21GTL bra 25GTL bra 19 GTL bra 78X bra 1000GTL bra 87GTL bra 146-GTL	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
bra 23 bra 27 bra V	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Bk-Spkr Red-Control
bra 25	Wh-3 Sh-1 Yel-N.C. Bl-4 Red-2 Bk-N.C.
bra 28A bra 28 bra 130 bra 131 bra 132 bra 135 bra 880 bra 139 bra 132A bra 85 bra 135 XLR bra 29GTL bra 46 XLR bra 32 XLR bra 139 XLR bra 136 XLR bra 86 XLR	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
m 88 bra 98	Note 6 Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
bra 136 bra 138A	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
bra 45 XLR bra 148-GTL-DX	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
bra 140GTL bra 142GTL bra 2000GTL bra 148GTL	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
bra 19X	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-5

EICO

Equipment

7723	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

FANON/COURIER

Citation Classic II	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Fleet Courier Courier 23+ Royale Courier 23 Fleet Courier 30B	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
Chief 23	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Courier 1M	Note 6 Wh-3 Sh-4 Yel-N.C. Bl-2 Red-4 Bk-1
Classic III Redball Cruiser	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
SFT-800A Courier TR-5 Traveller	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Volt Source Bk-Spkr Xfmr
Ranger 23 Raveller II	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
Cadet 23	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Carvelle Centurion Conquerer Gladiator Spartan SSB Caravelle II Conquerer II Fanfare 880 Fanfare 350F	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
Rebel 23+ Fan Fare 100	Wh-Yel Sh-Sh Yel-N.C. Bl-SH Red-Red Bk-Bl
SFT 600	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
SFT 400 SFT 500 Fanfare 700	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
COMET 23 SFT-700 SFT 900 (Guardsman)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3
Classic PLL 40 Caravelle 40D Fanfare 880DF Conqueror 40D Fanfare 185 DF Fanfare 184 DF Fanfare 182 F Fanfare 125 F Rangler 40D Blazer 40D Renegade 40 Rogue 40	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
FANFARE 120	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Wh Bk-Bk
Rebel 40A Fanfare 100F1 Rebel PLL	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk
Galaxy	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

FIELDMASTER

Equipment

Micro Mini 3 Micro Mini 6 Micro Mini 23	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
TR-18A TR-18M	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
MF-1001	Wh-5 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.

GM

GM 123A 99 5432 4120 4145 4175 4230	Wh-Wh Sh-Sh Yel-Yel Bl-Red Red-Bl Bk-Bk
CBD-12 7898540	Wh-Wh Sh-Sh Yel-Yel Bl-Bk Red-Bl Bk-Or
GM 23B	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
CBD-10	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GM 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

GEMTRONICS

GTX-3000	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
GTX-23 GTX-36 3325 GR 11930 GTX-3323 GTX-4040	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GTX-2325 GR-11935	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
GTX-2300 CB-11923 GTX-5000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
GT-44 GTX-55 GTX-77 GTX-66	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GT-230	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

GENERAL ELECTRIC

3-5800A 3-5810A 3-5804A	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
3-5801A 3-5811B 3-5804,B,D,G 3-5809 3-5871 3-5810B 3-5871A 3-5818A 3-5871B 3-5806A	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
3-5818 3-5812A 3-5819 3-5825A 3-5802 3-5813 3-5814 3-5821 3-5869 3-5819A 3-5821A 3-5813A, B 3-5814A, B 3-5869A 3-5873 3-5875A 3-5825B 3-5817A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

GENERAL ELECTRIC (Continued)

Equipment

3-5830A	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.

GRANADA

CB-7 FCB-27	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
CB-4	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

HALLICRAFTERS

261	Wh-1 Sh-4 Yel-N.C. Bl-6 Red-3 Bk-5

HANDIC

2305	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
240	Wh-1 Sh-3 Yel-5 Bl-6 Red-2 Bk-4
230	Wh-4 Sh-3 Yel-1 Bl-2 Red-6 Bk-5
235 305 605 605 DL 3605	NOT COMP

HITACHI

CM-2375H CM-2400C CM-2400H CM-2425H CM-4800C CM-4800H	Wh-4 Sh-1 Yel-N.C. Bl-2 Red-3 Bk-5

HY-GAIN

603 (23 plus)	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
672 (Hy Range III) 673 (Hy Range IV) 674 (Hy Range V)	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
670 (Hy Range I) 671 (Hy Range II) 671A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
2680 2681 2682 670B 671B 672B 673B 674B 681 682 683 2683 2701 2702 2703 2705 3077 3078 3084 3087 3107 3114	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
623 Utopia	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
2679 Hy-Gain 9 2679A	NOT COMP

J. I. L.

606CB	Wh-1 Sh-2 Yel-N.C. Bl-5 Red-3 Bk-N.C.

JANA ELECTRONICS LTD

Equipment

KJSSB-100 (Dominator)	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
KJCB-32 (Aggressor)	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
KJCB-91 (Interceptor) KJCB-91 (Vindicator) KJCB-520 (Avenger) KJCB-420 (Initiator) KJCB-440 (Activator)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

E. F. JOHNSON

Messenger I Messenger II	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Bk Bk-Red
Messenger 100 Messenger 110 Messenger 123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-Spkr
Messenger 223	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-2
Messenger 351 Messenger III Messenger 300 Messenger 320 Messenger 323 Messenger 323M	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Messenger 124 Messenger 124M	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
Messenger 120 Messenger 121 Messenger 210T Messenger 120A Messenger 121A	Wh-Wh Sh-Red Yel-Yel Bl-Red Red-Bl Bk-Bk

*On T-UG9 and Golden Eagle, replace Black Jumper from Term. 4 to Ground by a 10 uf 16VDC Capacitor.

Messenger 4135 Messenger 132 Messenger 123A Messenger 123B Messenger 123SJ Messenger 125 Messenger 323A Messenger 4140 Messenger 4145 Messenger 191 Messenger 4120 Messenger 4230 Viking 200 Messenger 122	Wh-Wh Sh-Sh Yel-Yel Bl-Red Red-Bl Bk-Bk
Messenger 250	Wh-1 Sh-Case Yel-4 Bl-2 Red-5 Bk-3
Messenger 350	Consult Astatic
Viking 352 Viking 352D Messenger 4740	Wh-1 Sh-Shell Yel-N.C. Bl-5 Red-2 Bk-N.C.
Messenger 130 Messenger 130A Messenger 132	Wh-1 Sh-5 Yel-N.C. Bl-3 Red-4 Bk-N.C.
121A	Wh-Wh Sh-Sh Yel-N.C. Bl-Brn Red-Bl Bk-Bk
Messenger 4170 Messenger 4175 Viking 260 Viking 270 Viking 230 Viking 430 Messenger 40 Messenger 80 Messenger 50	Wh-1 Sh-6 Yel-4 Bl-2 Red-5 Bk-3
4250	Wh-2 Sh-6 Yel-N.C. Bk-4 Red-3 Bk-N.C.
Messenger 4730	Wh-1 Sh-5 Yel-N.C. Bl-5 Red-2 Bk-N.C.

KENWOOD

Equipment

TS-520 T-599A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TS-820	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.

KRACO

2310 2320 2330 2345 2355 2320A 2320B KCB-4010 KCB-4020 KCB-4030 KCB-4005 KCB-4045	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
KCB-2370	Wh-5 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.
KCB-1401 KCB-4003	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
KCB 4070	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
KCB-1307	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
KCB-4088	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
KCB-4004	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
KCB-4000	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
KCB-4001	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

KRIS

T23B 99ER Vega	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
XL-23 XL-23A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
23+	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Ventura Valiant	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
Victor Victor II	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
XL-25 XL-70 XL-50	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

KRYPTON

Beta I	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

LAFAYETTE

Equipment

Comstat 19 Comstat 23 Mark V Mark VI HB 400 HB444 HB 444/25A	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3
Comstat 23 Comstat 25A Comstat 25B Comstat 35	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
HA 100 HB 111 HB 222 HE 20 AWX HE 20B HE 20C HE 20WX	Wh-3 Sh-2 Yel-N.C. Bl-4 Red-1 Bk-N.C.
HB 200	Wh-3 Sh-4 Yel-N.C. Bl-2 Red-1 Bk-N.C.
Micro 923 HE 20TA	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
HB 700	Wh-Audio Sh-Gnd Yel-N.C. Bl- + 13V Source Red- = 13V Trans. Supply Bk- + 13V Rec. Supply

Fig. 1 — Use the pin numbering sequence below for the radios below. The diagram shows the plug as viewed from the rear where the wires attach.

HA 450 HB 23 HB 23A HB 500 HB 501 HB 502A HB 525A HB 525B HB 525C HB 525D HB 525E HB 525F HB 555 HB 600 HB 625A HE 20T Micro 12 Micro 23 Telsat 23 Telsat 25 Telsat SSB 25 Telsat 50 Telsat SSB 50 Telsat SSB 50A Telsat 150 Telsat 924 Telsat 925	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.

HB 115A	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-5 Bk-1
HB 333 HE 90	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-5
Micro 66	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
Telsat SSB-80 Micro 723 Telsat SSB-120 Telsat 1140 Telsat 1050 Telsat 1000 HB-640 HB-650 HB-740 HB-750 HB-940 HB-950 Telstat SSB-140	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
HB-4000	Wh-1 Sh-2 Yel-5 Bl-2 Red-3 Bk-4
LM-200 LMS-40 Telsat-1240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
LM-100 LM-300	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Comstat-525	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

LAFAYETTE (Continued)

Equipment

Telsat 1023	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Com-Phone 23 Com-Phone Mark II	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Micro 223 Publican I HB-550	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
Telstat SSB-100 Telsat SSB-75 Micro 223A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

MIDLAND

13-845 13-868 13-874 13-876 13-877 13-878 13-880 13-885 13-891 13-880B	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
13-870C 13-870D 13-871 13-872 13-873	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
13-890 13-881	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
13-898 13-898B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
13-893 13-895 13-881B 79-893	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
13-894 13-896	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-5
13-854 13-801	Wh-Red Sh-Sh Yel-N.C. Bl-Sh Red-Wh Bk-Bk
13-800	Wh-Red Sh-Sh Yel-N.C. Bl-Bl Red-Wh Bk-N.C.
13-887 13-863	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
13-150 13-800	Wh-Audio Sh-Ch. Gnd Yel-N.C. Bl-Ckt. Gnd Red-Relay Bk-N.C.
13-869	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
13-856	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Grn Bk-Red
13-864 13-879 13-883 13-883B 77-883	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
13-867 13-884 77-824B 77-005	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
13-855	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk

MIDLAND (Continued)

Equipment

13-882	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
13-888 77-888 13-888 B	Wh-1 Sh-2 Yel-N.C. Bl-5 Red-3 Bk-4
77-838 77-849	Wh-2 Sh-7 Yel-N.C. Bl-6 Red-4 Bk-12
79-892	NOT REC ** Wh-1 Sh-4 Yel-N.C. Bl-4 Red-6 Bk-3

**No mics may be used for side-band operation since a clarifier control is required. They should work okay for A.M. however.

13-955 77-899 77-889	NOT COMP
13-862 13-862B 13-852 13-853 13-866 13-879B 78-574	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
77-830 77-882 77-857 13-830 13-857 13-858 13-863B 13-862B 13-892 13-882C 78-999 77-824C 79-891 77-150 77-004 78-858 77-825 78-863 13-976 13-857B 78-976 77-101B, C 77-855 77-859 77-860	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
13-886 78-886	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
13-884	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
53-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4&5
77-102 151M	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-5

MONTGOMERY WARD

774 702 A 775A Gen-828A Gen 730A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Gen 716A Gen 696A Gen 680A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

MOTOROLA

T-4000A T-4005A T4010A T4020A CF925AX CF520/521 CT950A T4009A T4025A	NOT COMP

NUVOX

CB-7000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5020	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

CRAIG (Continued)

Equipment

132 232	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

DELCO

BD-10	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
977 Series 979 Series	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
978 Series DBFMC1 DBFPC1 DYFMC1	Wh-1 Sh-5 Yel-N.C. Bl-2 Red-4 Bk-3

DEMCO

ATELITE RAVELIER	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
telite eluxe	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-2
avelle	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

DYNASCAN (B & K)

bra 20 bra 24	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
bra 6	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
bra 89GTL bra 21 bra 29 m 89 bra 19 bra 21 XLR bra 77X bra 29 XLR bra 89 XLR bra 21GTL bra 25GTL bra 19 GTL bra 78X bra 1000GTL bra 87GTL bra 146-GTL	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
bra 23 bra 27 bra V	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Bk-Spkr Red-Control
bra 25	Wh-3 Sh-1 Yel-N.C. Bl-4 Red-2 Bk-N.C.
bra 28A bra 28 bra 130 bra 131 bra 132 bra 135 bra 880 bra 139 bra 132A bra 85 bra 135 XLR bra 29GTL bra 46 XLR bra 32 XLR bra 139 XLR bra 138 XLR bra 86 XLR	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
am 88 bra 98	Note 6 Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
bra 136 bra 136A	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
bra 45 XLR bra 148-GTL-DX	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
bra 140GTL bra 142GTL bra 2000GTL bra 148GTL	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
bra 19X	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-5

EICO

Equipment

7723	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

FANON/COURIER

Citation Classic II	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Fleet Courier Courier 23+ Royale Courier 23 Fleet Courier 30B	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
Chief 23	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Courier 1M	Note 6 Wh-3 Sh-4 Yel-N.C. Bl-2 Red-4 Bk-1
Classic III Redball Cruiser	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
SFT-800A Courier TR-5 Traveller	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Volt Source Bk-Spkr Xfmr
Ranger 23 Raveller II	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
Cadet 23	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Carvelle Centurion Conquerer Gladiator Spartan SSB Caravelle II Conquerer II Fanfare 880 Fanfare 350F	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
Rebel 23+ Fan Fare 100	Wh-Yel Sh-Sh Yel-N.C. Bl-SH Red-Red Bk-Bl
SFT 600	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
SFT 400 SFT 500 Fanfare 700	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
COMET 23 SFT-700 SFT 900 (Guardsman)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3
Classic PLL 40 Caravelle 40D Fanfare 880DF Conqueror 40D Fanfare 185 DF Fanfare 184 DF Fanfare 182 F Fanfare 125 F Rangler 40D Blazer 40D Renegade 40 Rogue 40	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
FANFARE 120	Wh-Yel Sh-Sh Yel-N.C. Bi-Sh Red-Wh Bk-Bk
Rebel 40A Fanfare 100F1 Rebel PLL	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk
Galaxy	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

FIELDMASTER

Equipment

Micro Mini 3 Micro Mini 6 Micro Mini 23	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
TR-18A TR-18M	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
MF-1001	Wh-5 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.

GM

GM 123A 99 5432 4120 4145 4175 4230	Wh-Wh Sh-Sh Yel-Yel Bl-Red Red-Bl Bk-Bk
CBD-12 7898540	Wh-Wh Sh-Sh Yel-Yel Bl-Bk Red-Bl Bk-Or
GM 23B	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
CBD-10	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GM 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

GEMTRONICS

GTX-3000	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
GTX-23 GTX-36 3325 GR 11930 GTX-3323 GTX-4040	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GTX-2325 GR-11935	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
GTX-2300 CB-11923 GTX-5000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
GT-44 GTX-55 GTX-77 GTX-66	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
GT-230	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

GENERAL ELECTRIC

3-5900A 3-5810A 3-5804A	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
3-5801A 3-5811B 3-5804,B,D,G 3-5809 3-5871 3-5810B 3-5871A 3-5818A 3-5871B 3-5806A	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
3-5818 3-5812A 3-5819 3-5825A 3-5802 3-5813 3-5814 3-5821 3-5869 3-5819A 3-5821A 3-5813A, B 3-5814A, B 3-5869A 3-5873 3-5875A 3-5825B 3-5817A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

GENERAL ELECTRIC (Continued)

Equipment

3-5830A	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.

GRANADA

CB-7 FCB-27	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
CB-4	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

HALLICRAFTERS

261	Wh-1 Sh-4 Yel-N.C. Bl-6 Red-3 Bk-5

HANDIC

2305	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
240	Wh-1 Sh-3 Yel-5 Bl-6 Red-2 Bk-4
230	Wh-4 Sh-3 Yel-1 Bl-2 Red-6 Bk-5
235 305 605 605 DL 3605	NOT COMP

HITACHI

CM-2375H CM-2400C CM-2400H CM-2425H CM-4800C CM-4800H	Wh-4 Sh-1 Yel-N.C. Bl-2 Red-3 Bk-5

HY-GAIN

603 (23 plus)	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
672 (Hy Range III) 673 (Hy Range IV) 674 (Hy Range V)	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
670 (Hy Range I) 671 (Hy Range II) 671A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
2680 2681 2682 670B 671B 672B 673B 674B 681 682 683 2683 2701 2702 2703 2705 3077 3078 3084 3087 3107 3114	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
623 Utopia	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
2679 Hy-Gain 9 2679A	NOT COMP

J. I. L.

606CB	Wh-1 Sh-2 Yel-N.C. Bl-5 Red-3 Bk-N.C.

JANA ELECTRONICS LTD.

Equipment

KJSSB-100 (Dominator)	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
KJCB-32 (Aggressor)	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
KJCB-91 (Interceptor) KJCB-91 (Vindicator) KJCB-520 (Avenger) KJCB-420 (Initiator) KJCB-440 (Activator)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

E. F. JOHNSON

Messenger I Messenger II	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Bk Bk-Red
Messenger 100 Messenger 110 Messenger 123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-Spkr
Messenger 223	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-2
Messenger 351 Messenger III Messenger 300 Messenger 320 Messenger 323 Messenger 323M	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Messenger 124 Messenger 124M	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
Messenger 120 Messenger 121 Messenger 210T Messenger 120A Messenger 121A	Wh-Wh Sh-Red Yel-Yel Bl-Red Red-Bl Bk-Bk

*On T-UG9 and Golden Eagle, replace Black Jumper from Term. 4 to Ground by a 10 uf 16VDC Capacitor.

Messenger 4135 Messenger 132 Messenger 123A Messenger 123B Messenger 123SJ Messenger 125 Messenger 323A Messenger 4140 Messenger 4145 Messenger 191 Messenger 4120 Messenger 4230 Viking 200 Messenger 122	Wh-Wh Sh-Sh Yel-Yel Bl-Red Red-Bl Bk-Bk
Messenger 250	Wh-1 Sh-Case Yel-4 Bl-2 Red-5 Bk-3
Messenger 350	Consult Astatic
Viking 352 Viking 352D Messenger 4740	Wh-1 Sh-Shell Yel-N.C. Bl-5 Red-2 Bk-N.C.
Messenger 130 Messenger 130A Messenger 132	Wh-1 Sh-5 Yel-N.C. Bl-3 Red-4 Bk-N.C.
121A	Wh-Wh Sh-Sh Yel-N.C. Bl-Brn Red-Bl Bk-Bk
Messenger 4170 Messenger 4175 Viking 260 Viking 270 Viking 230 Viking 430 Messenger 40 Messenger 80 Messenger 50	Wh-1 Sh-6 Yel-4 Bl-2 Red-5 Bk-3
4250	Wh-2 Sh-6 Yel-N.C. Bk-4 Red-3 Bk-N.C.
Messenger 4730	Wh-1 Sh-5 Yel-N.C. Bl-5 Red-2 Bk-N.C.

KENWOOD

Equipment

TS-520 T-599A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TS-820	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.

KRACO

2310 2320 2330 2345 2355 2320A 2320B KCB-4010 KCB-4020 KCB-4030 KCB-4005 KCB-4045	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
KCB-2370	Wh-5 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.
KCB-1401 KCB-4003	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
KCB 4070	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
KCB-1307	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
KCB-4088	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
KCB-4004	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
KCB-4000	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
KCB-4001	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

KRIS

T23B 99ER Vega	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
XL-23 XL-23A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
23+	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Ventura Valiant	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
Victor Victor II	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
XL-25 XL-70 XL-50	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

KRYPTON

Beta I	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

LAFAYETTE

Equipment

Comstat 19 Comstat 23 Mark V Mark VI HB 400 HB444 HB 444/25A	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3
Comstat 23 Comstat 25A Comstat 25B Comstat 35	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
HA 100 HB 111 HB 222 HE 20 AWX HE 20B HE 20C HE 20WX	Wh-3 Sh-2 Yel-N.C. Bl-4 Red-1 Bk-N.C.
HB 200	Wh-3 Sh-4 Yel-N.C. Bl-2 Red-1 Bk-N.C.
Micro 923 HE 20TA	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
HB 700	Wh-Audio Sh-Gnd Yel-N.C. Bl- + 13V Source Red- = 13V Trans. Supply Bk- + 13V Rec. Supply

Fig. 1 — Use the pin numbering sequence below for the radios below. The diagram shows the plug as viewed from the rear where the wires attach.

HA 450 HB 23 HB 23A HB 500 HB 501 HB 502A HB 525A HB 525B HB 525C HB 525D HB 525E HB 525F HB 555 HB 600 HB 625A HE 20T Micro 12 Micro 23 Telsat 23 Telsat 25 Telsat SSB 25 Telsat 50 Telsat SSB 50 Telsat SSB 50A Telsat 150 Telsat 924 Telsat 925	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.
HB 115A	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-5 Bk-1
HB 333 HE 90	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-5
Micro 66	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
Telsat SSB-80 Micro 723 Telsat SSB-120 Telsat 1140 Telsat 1050 Telsat 1000 HB-640 HB-650 HB-740 HB-750 HB-940 HB-950 Telstat SSB-140	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
HB-4000	Wh-1 Sh-2 Yel-5 Bl-2 Red-3 Bk-4
LM-200 LMS-40 Telsat-1240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
LM-100 LM-300	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Comstat-525	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

LAFAYETTE (Continued)

Equipment

Telsat 1023	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Com-Phone 23 Com-Phone Mark II	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Micro 223 Publican I HB-550	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
Telstat SSB-100 Telsat SSB-75 Micro 223A	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

MIDLAND

13-845 13-868 13-874 13-876 13-877 13-878 13-880 13-885 13-891 13-880B	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
13-870C 13-870D 13-871 13-872 13-873	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
13-890 13-881	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
13-898 13-898B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
13-893 13-895 13-881B 79-893	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
13-894 13-896	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-5
13-854 13-801	Wh-Red Sh-Sh Yel-N.C. Bl-Sh Red-Wh Bk-Bk
13-800	Wh-Red Sh-Sh Yel-N.C. Bl-Bl Red-Wh Bk-N.C.
13-887 13-863	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
13-150 13-800	Wh-Audio Sh-Ch. Gnd Yel-N.C. Bl-Ckt. Gnd Red-Relay Bk-N.C.
13-869	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
13-856	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Grn Bk-Red
13-864 13-879 13-883 13-883B 77-883	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
13-867 13-884 77-824B 77-005	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
13-855	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk

MIDLAND (Continued)

Equipment

13-882	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5
13-888 77-888 13-888 B	Wh-1 Sh-2 Yel-N.C. Bl-5 Red-3 Bk-4
77-838 77-849	Wh-2 Sh-7 Yel-N.C. Bl-6 Red-4 Bk-12
79-892	NOT REC ** Wh-1 Sh-4 Yel-N.C. Bl-4 Red-6 Bk-3

**No mics may be used for side-band operation since a clarifier control is required. They should work okay for A.M. however.

13-955 77-899 77-889	NOT COMP
13-862 13-862B 13-852 13-853 13-866 13-879B 78-574	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
77-830 77-882 77-857 13-830 13-857 13-858 13-863B 13-882B 13-892 13-882C 78-999 77-824C 79-891 77-150 77-004 78-858 77-825 78-863 13-976 13-857B 78-976 77-101B, C 77-845 77-859 77-860	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
13-886 76-886	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
13-884	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
63-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4&5
77-102 151M	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-5

MONTGOMERY WARD

774 702 A 775A Gen-828A Gen 730A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Gen 716A Gen 696A Gen 680A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

MOTOROLA

T-4000A T-4005A T4010A T4020A CF825AX CF520/521 CT950A T4009A T4025A	NOT COMP

NUVOX

CB-7000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5020	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

PACE

Equipment

100S	Wh-4 Sh-2 Yel-N.C Bl-2 Red-1 Bk-N.C
TA-2300/B	Wh-1 Sh-2 Yel-N.C Bl-2 Red-4 Bk-3
CBST 23 (Sidetalk 23)	Wh-1 Sh-2 Yel-N.C Bl-3 Red-4 Bk-N.C
C-123A 123A (Late Prod) 10-2 100ASA 133 143	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
CB1023 CB1023B	Wh-Tip Sh-Sleeve Yel-N.C Bl-Sleeve Red-Ring Bk-N.C
1, 11, 11-S Plus 23 100, 200 223 2300 (Early) 2376 2376A 2376B	Wh-Wh Sh-Sh Yel-N.C Bl-Sh Red-Red Bk-Bk
2300 (5 pin plug) P 2376 2376A	Wh-5 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3
2300 2300 (Late Prod - 4 Pin) DX 2300D CB76	Wh-4 Sh-3 Yel-N.C Bl-3 Red-1 Bk-2
8092 8047 CB-185 113 130 144 145 166 162 8041, 8046	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
1000B 1000M 8008 8025 1000MC 8193	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
8010A 8015A	Wh-4 Sh-3 Yel-N.C Bl-2 Red-1 Bk-N.C.
8014	NOT COMP
8117 8113	Wh-4 Sh-3 Yel-N.C Bl-3 Red-1 Bk-N.C.
8340	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
8016	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
8155	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C
8003	Wh-1 Sh-2 Yel-N.C Bl-2 Red-3 Bk-4

PAL ELECTRONICS

Roadrunner Coyote	E or R Wh-1 Sh-4 Yel-N.C Bl-3 Red-2 Bk-N.C

PALOMAR

Digicom 100	Wh-1 Sh-3 Yel-N.C Bl-3 Red-2 Bk-N.C
21 49 SSB-500	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

Equipment

Skipper 71B Skipper 73	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip
4100	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

PANASONIC

RJ3200 RJ-3600 RJ-3660	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
CR-B1717EU CR-B4737EU CR-B4747EU CQ-B5919EU	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
RJ-3100 RJ-3050 RJ-3250 RJ-3150	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

PEARCE SIMPSON

Guardian 23 Guardian 23B	Wh-1 Sh-Shell Yel-N.C. Bl-Shell Red-2 Bk-N.C.
Puma 23 Super Lynx Lynx 23 Tiger 23B Tiger 23C Cougar 23B Bearcat 23C GM 23 GM 23M	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Leopard B	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
Wildcat Wildcat 11	Wh-5 Sh-4 Yel-1 Bl-6 Red-3 Bk-2

*T-UG9, Golden Eagle Special Instructions

1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Director Director (Rev) Escort 11	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Escort	Wh-Audio Sh-Shell Yel-N.C. Bl-Shell Red-Relay Bk-N.C.
Bobcat 23	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-5 Bk-N.C.
Bobcat 23B Sentry	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Bearcat 23 Bearcat 23B Cheetah SSB Cougar 23 (Late Prod) Simba SSB Tiger 23 Panther SSB Bengal SSB Tomcat	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Panther	Wh-Audio Sh-Gnd Yel-Spkr Bl + 12V Source Red-Tran. 12V Supply Bk-Rec. 12V Supply
Bobcat 23C Puma 23B Bobcat 23E Puma 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
2302 Pussycat 23	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3

PEARCE SIMPSON (Continued)

Equipment

2301 Tomcat 23B Alleycat 23	Wh-Audio Sh-Gnd Yel-N.C Bl-Gnd Red-Control Bk-Spkr
Bobcat 23D	Wh-2 Sh-4 Yel-N.C Bl-4 Red-1 Bk-3
GM-23B	Wh-4 Sh-3 Yel-N.C Bl-3 Red-1 Bk-2
Tiger Mark II Tiger 40A Lion 40 Tiger Mark 40 Super Tiger 40A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Jaguar B	Wh-2 Sh-1 Yel-N.C Bl-4 Red-3 Bk-N.C

J. C. PENNY

981-6051 (Golden Pinto) 985-6060 (Pinto 23B) 981-6246 981-6241 981-6225 981-6248	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
981-6075 (Pinto SSB)	Wh-Audio Sh - Cond Yel - N.C. Bl - Cond Red - Relay Bk - N.C.
985-6050 (Pinto 23)	Wh-3 Sh-1 Yel-N.C. Bl-1 Red-2 Bk-N.C.
981-6200 981-6201	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Grn Bk-Red
981-6204	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
981-6216 981-6218 981-6214 981-6247 981-6203 981-6237 981-6221 981-6215 981-6238	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6210 (Pinto) 981-6230 (Pinto)	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
981-6212 (Pinto) 981-6220 (Transceiver/ Scanner) 981-6235 (Pinto) 981-6240 981-6240A 981-6213	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6217	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
6247 981-6216 981-6214	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

PRESIDENT ELECTRONICS

Andrew J. John Q Honest Abe Teddy R. Zachary T. Dwight D. Grant Washington Adams Madison Old Hickory Thomas J. Veep AR-14 AR-44	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
McKinley Grant Washington Madison	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
AR-7	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

RAY JEFFERSON

Equipment

711	Wh-Yel Sh-Sh Yel-N.C Bl-Sh Red-Red Bk-Vio
CB-905	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
CB-705 CB-740	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
701	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-2569	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
CB-845	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-707	Wh-Red Sh-Sh Yel-Wh Bl-Bk Red-Yel Bk-Bl
CB805	Wh-3 Sh-1 Yel-N.C. Bl-4 Red-2 Bk-N.C.

RCA

14T100 14T200	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T300 14T301 14T303 14T304 14T-260 14T-270	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T 400 14T 410 14T405	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
14T305	NOT COMP

REALISTIC

Americana 23+	Wh-2 Sh-Shell Yel-N.C. Bl-Shell Red-1 Bk-N.C.
TRC-5	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Bk Bk-Red
TRC-8D	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-2
TRC-18	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
TRC-X23A	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-10	Wh-4 Sh-1 Yel-5 Bl-1 Red-3 Bl-2
TRC-152 TRC-452 TRC-30 TRC-30A TRC-24B TRC-50 TRC-50A (5 Pin) TRC-55 TRC-24C TRC-52 TRC-24A TRC-56 TRC-68 TRC-468 TRC-456 TRC-440 TRC-467 TRC-466 TRC-23C TRC-10A TRC-455 TRC-424	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

REALISTIC (Continued)

Equipment

TRC-431 TRC-490 TRC-426 TRC-421 TRC-205 TRC-427 TRC-469 TRC-454 TRC-67 TRC-422 TRC-420 TRC-425 TRC-470	
TRC-508 (4 Pin)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-1
TRC-9	NOT COMP
TRC-29 1st Model	Wh-1 Sh-2 Yel-N.C., Bl-4 Red-3 Bk-N.C
TRC-29 2nd Model	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRC-480 TRC-46 TRC-47 TRC-48 TRC-49 TRC-57 TRC-458 TRC-457 TRC-449 TRC-448	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
TRC-40 TRC-23B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-24	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-471	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

REGENCY

CB-27 CBM-27-6 CBM-27-12	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Formula/23 Sprint/23	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
GT 523	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.

*Replace Back Jumper from Terminal 4 to Ground with 10 uf 12V DC Capacitor.

Imperial (CB-253) Imperial 11 (CB-254) Range Gain 11 Romper (A-3)	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Range Gain Ranger CB270	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Sprint 2311	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Model 500	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-7 v Bk-Spkr
CR-142 CR-230 CR-185 CF-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CR-123	Wh-Tip Sh-Case Yel-N.C. Bl-Case Red-Ring Bk-N.C.
CR-123B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

REGENCY (Continued)

Equipment

CR-186	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CR-202	Wh-Blk Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-501 CB-701	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBERTS

RCB-10	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
RCB-770 RCB-470	Wh-1 Sh-4 Yel-N.C. Bl-6 Red-3 Bk-5
RCB-15 RCB-55	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBYN

BB 123 TR 123C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
J-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
K-123	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
T-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
TR-123B	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
XL-ONE SX-101 GT-VII XL-TWO SX-102 SX-102B SX-401 SX-402D SX-102D	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
AM-500D* WV-110 WV 23 SX-007 DG-30 LB-23 WV-23A LB-23A WV-110 LB-120 DG-130D 007-140	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

*Add a .01 capacitor in series with the white lead.

SS-747B	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
605	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
T-123B TR-123D	Wh-1 Sh-4 Yel-N.C Bl-3 Red-2 Bk-N.C.

ROBYN (Continued)

Equipment

SB-510D SB-520D	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

*Add a .01 microfarad capacitor in series with the white lead

T-240D	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

*Add a .01 microfarad capacitor in series with the white lead.

440	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
SB-540D	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
SB-505D	NOT COMP

ROMAR

CB-7000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
ACT-1914	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

ROYCE

1-600	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
1-600A 1-600B 1-620 1-608 1-611 651	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-601 1-602A 1-640 1-606 1-603 1-624 1-625 1-673 1-610 1-617	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-630	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-N.C.
1-648 1-619 1-604	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-609	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-5
1-675 1-632 1-658 1-636 1-631 1-605A 1-635 1-630 (4 Pin) 1-650 1-655 1-653B 1-641 1-660 1-678 1-680 1-642 1-662 1-682	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-602 1-605	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-621 1-612 1-631 1-639 1-607	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-614	Wh-5 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.

RYSTAL

Equipment

CBR-1800	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CBR-1700	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-523	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.

SANYO

TA-1000	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
TA901A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bkl-3

SBE

1CB	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
7CB (Sierra)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
8CB (Console) 16CB (Console 11) 40 CB (Console V) 10 CB (Coranodo 11) 12 CB (Sidebander 11) 14 CB (Super Console) 6 CB	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
23 CB (Capri 11) 22 CB (Catalina 11)	Wh-Wh Sh-Sh Yel-Bl Bl-Red Red-Bk Bk-Brn
34 CB (Brute)	Wh-Wh Sh-Sh Yel-Grn Bl-Bk Red-Red Bk-Bl
9 CB (Catalina)	Wh-Audio Sh-Gnd Yel-N.C. Bl-Relay Red- +12V Bk-N.C.
18 CB (Sidebander III) 21 CB (Cortez) 26 CB (Formula D) 29 CB (Catalina III) 30 CB (Trinidad II) SBE-27CB/A (Sidebander IV) SBE-39CB (Sidebander V) SBE-40CB (Console V) SBE-41CB (Aspen) SBE-42CB (Cortez 40) SBE-44CB (Malibu 40) SBE-45CB (Trinidad III) SBE-54CB (Key/Com 1000) SBE-50CB (Console VI)	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Delmar 225 LCM-5 (Land Command)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
49CB Tahoe Land Command (LCM-8)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-5 Bk-1
Land Command (LCM-8)	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-5 Bk-3

SBE (Continued)

Equipment

LCBS-4	Wh-4 Sh-2 Yel-N Bl-2 Red- Bk-1

M. H. SCOTT

Dak Mark IX Dak Mark X	Wh-1 Sh-2 Yel-N Bl-3 Red-4 Bk-N
Dak Mark III Dak Mark II Dak Mark V	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-5

SEARS

663 38070700 934.38770500 934.38710500 934.38740500 934.38772600 934.38771500 934.38310700 Road talker (3822) 934.36742600 370.38050700 562.38200700 934.38120700 934.38080700 934.38110700 934.38081700 934.38060700 934.38062700 934.38270700 934.38260700 663.38020600 663 38000900	Wh-4 Sh-1 Yel-N Bl-1 Red-3 Bk-5

SHAKESPEARE

GBS-2500 GBS-1500 GBS-240	Wh-1 Sh-2 Yel-N Bl-2 Red-4 Bk-3
GBS-2000	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-4
740	Wh-1 Sh-4 Yel-N Bl-3 Red- Bk-N
840	Wh-4 Sh-1 Yel-N Bl-1 Red- Bk-5

SHARP

CB-700 CB-800 CB-2260 CB-2460 CB-750A CB-800A CB-4370 CB-2170 CB-5470	Wh-1 Sh-4 Yel-N Bl-3 Red- Bk-N
CBT-58 CB-500UB CB-550UB	Wh-A Sh-G Yel-N Bl-Bn Red-F Bk-N.

SILTRONIX

1011C	Wh-R Sh-Sl Yel-N Bl-Sle Red-T Bk-N
Apache Mohawk	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-N
SSB-23	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-N

SONAR

Model E FS-23 Model G Model H FS-3023 FS-2340	Wh-R Sh-Sl Yel-N Bl-Sle Red-T Bk-N.
J-23	Wh-W Sh-St Yel-N Bl-Sh Red-F Bk-Bl

SPARKOMATIC

CB-1023	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-5

PACE

Equipment	
100S	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TA-2300/B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CBST 23 (Sidetalk 23)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
C-123A 123A (Late Prod) 10-2 100ASA 133 143	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
CB1023 CB1023B	Wh-Tip Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Ring Bk-N.C.
1, 11, 11-S Plus 23 100, 200 223 2300 (Early) 2376 2376A 2376B	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Bk
2300 (5 pin plug) P 2376 2376A	Wh-5 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-3
2300 2300 (Late Prod - 4 Pin) DX 2300D CB76	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
8092 8047 CB-185 113 130 144 145 166 162 8041, 8046	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
1000B 1000M 8008 8025 1000MC 8193	*Wh-1* Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
8010A 8015A	Wh-4 Sh-3 Yel-N.C. Bl-2 Red-1 Bk-N.C.
8014	NOT COMP
8117 8113	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.
8340	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
8016	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
8155	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
8003	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

PAL ELECTRONICS

Roadrunner Coyote	E or R Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.

PALOMAR

Digicom 100	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
21 49 SSB-500	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

Equipment	
Skipper 71B Skipper 73	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip
4100	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

PANASONIC

RJ3200 RJ-3600 RJ-3660	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
CR-B1717EU CR-B4737EU CR-B4747EU CQ-B5919EU	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
RJ-3100 RJ-3050 RJ-3250 RJ-3150	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

PEARCE SIMPSON

Guardian 23 Guardian 23B	Wh-1 Sh-Shell Yel-N.C. Bl-Shell Red-2 Bk-N.C.
Puma 23 Super Lynx Lynx 23 Tiger 23B Tiger 23C Cougar 23B Bearcat 23C GM 23 GM 23M	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Leopard B	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
Wildcat Wildcat 11	Wh-5 Sh-4 Yel-1 Bl-6 Red-3 Bk-2

T-UG9 Golden Eagle Special Instructions
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 6

Director Director (Rev) Escort 11	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Escort	Wh-Audio Sh-Shell Yel-N.C. Bl-Shell Red-Relay Bk-N.C.
Bobcat 23	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-5 Bk-N.C.
Bobcat 23B Sentry	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Bearcat 23 Bearcat 23B Cheetah SSB Cougar 23 (Late Prod) Simba SSB Tiger 23 Panther SSB Bengal SSB Tomcat	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Panther	Wh-Audio Sh-Gnd Yel-Spkr Bl + 12V Source Red-Tran. 12V Supply Bk-Rec. 12V Supply
Bobcat 23C Puma 23B Bobcat 23E Puma 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
2302 Pussycat 23	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3

PEARCE SIMPSON (Continued)

Equipment	
2301 Tomcat 23B Alleycat 23	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
Bobcat 23D	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-3
GM-23B	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Tiger Mark II Tiger 40A Lion 40 Tiger Mark 40 Super Tiger 40A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Jaguar B	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.

J. C. PENNY

981-6051 (Golden Pinto) 985-6060 (Pinto 23B) 981-6246 981-6241 981-6225 981-6248	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
981-6075 (Pinto SSB)	Wh-Audio Sh - Cond Yel - N.C Bl - Cond Red - Relay Bk - N.C.
985-6050 (Pinto 23)	Wh-3 Sh-1 Yel-N.C. Bl-1 Red-2 Bk-N.C.
981-6200 981-6201	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Grn Bk-Red
981-6204	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
981-6216 981-6218 981-6214 981-6247 981-6203 981-6237 981-6221 981-6215 981-6238	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6210 (Pinto) 981-6230 (Pinto)	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
981-6212 (Pinto) 981-6220 (Transceiver/ Scanner) 981-6235 (Pinto) 981-6240 981-6240A 981-6213	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6217	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
6247 981-6216 981-6214	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

PRESIDENT ELECTRONICS

Andrew J John O Honest Abe Teddy R. Zachary T. Dwight D Grant Washington Adams Madison Old Hickory Thomas J. Veep AR-14 AR-44	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
McKinley Grant Washington Madison	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
AR-7	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5

RAY JEFFERSON

Equipment	
711	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-905	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
CB-705 CB-740	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
701	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-2569	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
CB-845	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-707	Wh-Red Sh-Sh Yel-Wh Bl-Bk Red-Yel Bk-Bl
CB805	Wh-3 Sh-1 Yel-N.C. Bl-4 Red-2 Bk-N.C.

RCA

14T100 14T200	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T300 14T301 14T303 14T304 14T-260 14T-270	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T 400 14T410 14T405	Wh-1 Sh-2 Yel-N.C. Bl-5 Red-2 Bk-N.C.
14T305	NOT COMP

REALISTIC

Americana 23+	Wh-2 Sh-Shell Yel-N.C. Bl-Shell Red-1 Bk-N.C.
TRC-5	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Bk Bk-Red
TRC-8D	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-2
TRC-18	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
TRC-X23A	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-10	Wh-4 Sh-1 Yel-5 Bl-1 Red-3 Bl-2
TRC-152 TRC-452 TRC-30 TRC-30A TRC-24B TRC-50 TRC-50A (5 Pin) TRC-55 TRC-24C TRC-52 TRC-24A TRC-56 TRC-68 TRC-468 TRC-456 TRC-440 TRC-467 TRC-466 TRC-23C TRC-10A TRC-455 TRC-424	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

REALISTIC (Continued)

Equipment	
TRC-431 TRC-490 TRC-426 TRC-421 TRC-205 TRC-427 TRC-469 TRC-454 TRC-67 TRC-422 TRC-420 TRC-425 TRC-470	
TRC-50B (4 Pin)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-1
TRC-9	NOT COMP
TRC-29 1st Model	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-29 2nd Model	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRC-480 TRC-46 TRC-47 TRC-48 TRC-49 TRC-57 TRC-458 TRC-457 TRC-449 TRC-448	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
TRC-40 TRC-23B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-24	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-471	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

REGENCY

CB-27 CBM-27-6 CBM-27-12	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Formula/23 Sprint/23	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
GT 523	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.

*Replace Back Jumper from Terminal 4 to Ground with 10 uf 12V DC Capacitor.

Imperial (CB-253) Imperial 11 (CB-254) Range Gain 11 Romper (A-3)	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Range Gain Ranger CB270	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Sprint 2311	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Model 500	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-7 v Bk-Spkr
CR-142 CR-230 CR-185 CF-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CR-123	Wh-Tip Sh-Case Yel-N.C. Bl-Case Red-Ring Bk-N.C.
CR-123B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

REGENCY (Continued)

Equipment	
CR-186	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CR-202	Wh-Blk Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-501 CB-701	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBERTS

RCB-10	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
RCB-770 RCB-470	Wh-1 Sh-4 Yel-N.C. Bl-6 Red-3 Bk-5
RCB-15 RCB-55	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBYN

BB 123 TR 123C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
J-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
K-123	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
T-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
TR-123B	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
XL-ONE SX-101 GT-VII XL-TWO SX-102 SX-102B SX-401 SX-402D SX-102D	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
AM-500D* WV-110 WV 23 SX-007 DG-30 LB-23 WV-23A LB-23A WV-110 LB-120 DG-130D 007-140	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

*Add a .01 capacitor in series with the white lead.

SS-747B	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
605	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
T-123B TR-123D	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.

ROBYN (Continued)

Equipment	
SB-510D SB-520D	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

*Add a .01 microfarad capacitor in series with the white lead

T-240D	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

*Add a .01 microfarad capacitor in series with the white lead

440	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
SB-540D	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
SB-505D	NOT COMP

ROMAR

CB-7000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
ACT-1914	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

ROYCE

1-600	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
1-600A 1-600B 1-620 1-608 1-611 651	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-601 1-602A 1-640 1-606 1-603 1-624 1-625 1-673 1-610 1-617	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-630	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-N.C.
1-648 1-619 1-604	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-609	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-5
1-675 1-632 1-658 1-636 1-631 1-605A 1-635 1-630 (4 Pin) 1-650 1-655 1-553B 1-641 1-660 1-678 1-680 1-642 1-662 1-682	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-602 1-605	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-621 1-612 1-631 1-639 1-607	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-614	Wh-5 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.

RYSTAL

Equipment	
CBR-1800	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CBR-1700	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-523	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.

SANYO

TA-1000	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
TA901A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bkl-3

SBE

1CB	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
7CB (Sierra)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
8CB (Console) 16CB (Console 11) 40 CB (Console V) 10 CB (Coranodo 11) 12 CB (Sidebander 11) 14 CB (Super Console) 6 CB	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
23 CB (Capri 11) 22 CB (Catalina 11)	Wh-Wh Sh-Sh Yel-Bl Bl-Red Red-Bk Bk-Brn
34 CB (Brute)	Wh-Wh Sh-Sh Yel-Grn Bl-Blk Red-Red Bk-Bl
9 CB (Catalina)	Wh-Audio Sh-Gnd Yel-N.C. Bl-Relay Red- +12V Bk-N.C.
18 CB (Sidebander III) 21 CB (Cortez) 26 CB (Formula D) 29 CB (Catalina III) 30 CB (Trinidad II) SBE-27CB/A (Sidebander IV) SBE-39CB (Sidebander V) SBE-40CB (Console V) SBE-41CB (Aspen) SBE-42CB (Cortez 40) SBE-44CB (Malibu 40) SBE-45CB (Trinidad III) SBE-54CB (Key/Com 1000) SBE-50CB (Console VI)	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Delmar 225 LCM-5 (Land Command)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
49CB Tahoe Land Command (LCM-8)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-5 Bk-1
Land Command (LCM-8)	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-5 Bk-3

SBE (Continued)

Equipment	
LCBS-4	Wh-4 Sh-2 Yel-N Bl-2 Red-5 Bk-1

M. H. SCOTT

Dak Mark IX Dak Mark X	Wh-1 Sh-2 Yel-N Bl-3 Red-4 Bk-N
Dak Mark III Dak Mark II Dak Mark V	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-5

SEARS

663.38070700 934.38770500 934.38710500 934.38740500 934.38772600 934.38771500 934.38310700 Road talker (3822) 934.38742500 370.38050700 562.38200700 934.38120700 934.38080700 934.38110700 934.38081700 934.38060700 934.38062700 934.38270700 934.38260700 663.38020800 663.38000900	Wh-4 Sh-1 Yel-N Bl-1 Red-3 Bk-5

SHAKESPEARE

GBS-2500 GBS-1500 GBS-240	Wh-1 Sh-2 Yel-N Bl-2 Red-4 Bk-3
GBS-2000	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-4
740	Wh-1 Sh-4 Yel-N Bl-3 Red- Bk-N
840	Wh-4 Sh-1 Yel-N Bl-1 Red- Bk-5

SHARP

CB-700 CB-800 CB-2260 CB-2460 CB-750A CB-800A CB-4370 CB-2170 CB-5470	Wh-1 Sh-4 Yel-N Bl-3 Red- Bk-N
CBT-58 CB-500UB CB-550UB	Wh-A Sh-G Yel-N Bl-Bn Red-F Bk-N

SILTRONIX

1011C	Wh-R Sh-Sl Yel-N Bl-Sle Red- Bk-N
Apache Mohawk	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-N
SSB-23	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-N

SONAR

Model E FS-23 Model G Model H FS-3023 FS-2340	Wh-R Sh-Sl Yel-N Bl-Sle Red-T Bk-N
J-23	Wh-W Sh-Sl Yel-N Bl-Sh Red-F Bk-Bl

SPARKOMATIC

CB-1023	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-5

PACE

Equipment	
100S	Wh-4 Sh-2 Yel-N C Bl-2 Red-1 Bk-N C
TA-2300/B	Wh-1 Sh-2 Yel-N C Bl-2 Red-4 Bk-3
CBST 23 (Sidetalk 23)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N C
C-123A 123A (Late Prod) 10-2 100ASA 133 143	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N C.
CB1023 CB1023B	Wh-Tip Sh-Sleeve Yel-N C Bl-Sleeve Red-Ring Bk-N C
1, 11, 11-S Plus 23 100, 200 223 2300 (Early) 2376 2376A 2376B	Wh-Wh Sh-Sh Yel-N C. Bl-Sh Red-Red Bk-Bk
2300 (5 pin plug) P 2376 2376A	Wh-5 Sh-4 Yel-N C Bl-4 Red-2 Bk-3
2300 2300 (Late Prod - 4 Pin) DX 2300D CB76	Wh-4 Sh-3 Yel-N C Bl-3 Red-1 Bk-2
8092 8047 CB-185 113 130 144 145 166 162 8041, 8046	Wh-1 Sh-2 Yel-N C Bl-2 Red-4 Bk-N C
1000B 1000M 8008 8025 1000MC 8193	Wh-1 Sh-2 Yel-N C Bl-2 Red-4 Bk-N C.
8010A 8015A	Wh-4 Sh-3 Yel-N C Bl-2 Red-1 Bk-N C.
8014	NOT COMP
8117 8113	Wh-4 Sh-3 Yel-N C Bl-3 Red-1 Bk-N C
8340	Wh-1 Sh-2 Yel-N C Bl-2 Red-3 Bk-4
8016	Wh-1 Sh-2 Yel-N C Bl-2 Red-4 Bk-3
8155	Wh-1 Sh-2 Yel-N C Bl-3 Red-4 Bk-N C
8003	Wh-1 Sh-2 Yel-N C Bl-2 Red-3 Bk-4

PAL ELECTRONICS

Roadrunner Coyote	E or R Wh-1 Sh-4 Yel-N C Bl-3 Red-2 Bk-N C

PALOMAR

Digicom 100	Wh-1 Sh-3 Yel-N C Bl-3 Red-2 Bk-N C
21 49 SSB-500	Wh-2 Sh-1 Yel-N C Bl-1 Red-3 Bk-4

Equipment	
Skipper 71B Skipper 73	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip
4100	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

PANASONIC

RJ3200 RJ-3600 RJ-3680	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
CR-B1717EU CR-B4737EU CR-B4747EU CQ-B5919EU	Wh-1 Sh-3 Yel-N.C. Bl-5 Red-2 Bk-N.C.
RJ-3100 RJ-3050 RJ-3250 RJ-3150	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

PEARCE SIMPSON

Guardian 23 Guardian 23B	Wh-1 Sh-Shell Yel-N.C. Bl-Shell Red-2 Bk-N.C.
Puma 23 Super Lynx Lynx 23 Tiger 23B Tiger 23C Cougar 23B Bearcat 23C GM 23 GM 23M	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Leopard B	Wh-1 Sh-3 Yel-N C. Bl-5 Red-2 Bk-N.C.
Wildcat Wildcat 11	Wh-5 Sh-4 Yel-1 Bl-6 Red-3 Bk-2

*T-UG9, Golden Eagle Special Instructions
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 6

Director Director (Rev) Escort 11	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.
Escort	Wh-Audio Sh-Shell Yel-N.C. Bl-Shell Red-Relay Bk-N.C.
Bobcat 23	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-5 Bk-N.C.
Bobcat 23B Sentry	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Bearcat 23 Bearcat 23B Cheetah SSB Cougar 23 (Late Prod) Simba SSB Tiger 23 Panther SSB Bengal SSB Tomcat	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Panther	Wh-Audio Sh-Gnd Yel-Spkr Bl + 12V Source Red-Tran. 12V Supply Bk-Rec. 12V Supply
Bobcat 23C Puma 23B Bobcat 23E Puma 23C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
2302 Pussycat 23	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3

PEARCE SIMPSON (Continued)

Equipment	
2301 Tomcat 23B Alleycat 23	Wh-Audio Sh-Gnd Yel-N C. Bl-Gnd Red-Control Bk-Spkr
Bobcat 23D	Wh-2 Sh-4 Yel-N C Bl-4 Red-1 Bk-3
GM-23B	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Tiger Mark II Tiger 40A Lion 40 Tiger Mark 40 Super Tiger 40A	Wh-1 Sh-2 Yel-N C Bl-2 Red-4 Bk-3
Jaguar B	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N C

J. C. PENNY

981-6051 (Golden Pinto) 985-6060 (Pinto 23B) 981-6246 981-6241 981-6225 981-6248	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
981-6075 (Pinto SSB)	Wh-Audio Sh - Cond Yel - N.C. Bl - Cond Red - Relay Bk - N.C.
985-6050 (Pinto 23)	Wh-3 Sh-1 Yel-N C Bl-1 Red-2 Bk-N C
981-6200 981-6201	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Grn Bk-Red
981-6204	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
981-6216 981-6218 981-6214 981-6247 981-6203 981-6237 981-6221 981-6215 981-6238	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6210 (Pinto) 981-6230 (Pinto)	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
981-6212 (Pinto) 981-6220 (Transceiver/ Scanner) 981-6235 (Pinto) 981-6240 981-6240A 981-6213	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
981-6217	Wh-1 Sh-2 Yel-N C Bl-2 Red-3 Bk-4
6247 981-6216 981-6214	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

PRESIDENT ELECTRONICS

Andrew J. John Q Honest Abe Teddy R. Zachary T. Dwight D. Grant Washington Adams Madison Old Hickory Thomas J. Veep AR-14 AR-44	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
McKinley Grant Washington Madison	Wh-1 Sh-2 Yel-N C Bl-4 Red-5 Bk-3
AR-7	Wh-1 Sh-3 Yel-N C Bl-3 Red-2 Bk-5

RAY JEFFERSON

Equipment	
711	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-905	Wh-Ring Sh-Sleeve Yel-N C. Bl-Sleeve Red-Tip Bk-N C.
CB-705 CB-740	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
701	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-2569	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
CB-845	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-707	Wh-Red Sh-Sh Yel-Wh Bl-Bk Red-Yel Bk-Bl
CB805	Wh-3 Sh-1 Yel-N.C. Bl-4 Red-2 Bk-N.C.

RCA

14T100 14T200	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T300 14T301 14T303 14T304 14T-260 14T-270	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
14T 400 14T 410 14T405	Wh-1 Sh-2 Yel-N.C. Bl-5 Red-2 Bk-N.C.
14T305	NOT COMP

REALISTIC

Americana 23+	Wh-2 Sh-Shell Yel-N.C. Bl-Shell Red-1 Bk-N.C.
TRC-5	Wh-Wh Sh-Sh Yel-N.C. Bl-Sh Red-Bk Bk-Red
TRC-8D	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-1 Bk-2
TRC-18	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
TRC-X23A	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-10	Wh-4 Sh-1 Yel-5 Bl-1 Red-3 Bl-2
TRC-152 TRC-452 TRC-30 TRC-30A TRC-24B TRC-50 TRC-50A (5 Pin) TRC-55 TRC-24C TRC-52 TRC-24A TRC-56 TRC-68 TRC-468 TRC-456 TRC-440 TRC-467 TRC-466 TRC-23C TRC-10A TRC-455 TRC-424	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

REALISTIC (Continued)

Equipment	
TRC-431 TRC-490 TRC-426 TRC-421 TRC-205 TRC-427 TRC-469 TRC-454 TRC-67 TRC-422 TRC-420 TRC-425 TRC-470	
TRC-50B (4 Pin)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-1
TRC-9	NOT COMP
TRC-29 1st Model	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.
TRC-29 2nd Model	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N C.
TRC-480 TRC-46 TRC-47 TRC-48 TRC-49 TRC-57 TRC-458 TRC-457 TRC-449 TRC-448	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N C
TRC-40 TRC-23B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-24	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
TRC-471	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

REGENCY

CB-27 CBM-27-6 CBM-27-12	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N C.
Formula/23 Sprint/23	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
GT 523	Wh-Wh Sh-Sh Yel-N.C. Bl-Bk Red-Red Bk-N.C.

*Replace Back Jumper from Terminal 4 to Ground with 10 uf 12V DC Capacitor.

Imperial (CB-253) Imperial 11 (CB-254) Range Gain 11 Romper (A-3)	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Range Gain Ranger CB270	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
Sprint 2311	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Model 500	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-7 v Bk-Spkr
CR-142 CR-230 CR-185 CF-240	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CR-123	Wh-Tip Sh-Case Yel-N.C. Bl-Case Red-Ring Bk-N.C.
CR-123B	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

REGENCY (Continued)

Equipment	
CR-186	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CR-202	Wh-Blk Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Vio
CB-501 CB-701	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBERTS

RCB-10	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
RCB-770 RCB-470	Wh-1 Sh-4 Yel-N.C. Bl-6 Red-3 Bk-5
RCB-15 RCB-55	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

ROBYN

BB 123 TR 123C	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-N.C.
J-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
K-123	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
T-123	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
TR-123B	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
XL-ONE SX-101 GT-VII XL-TWO SX-102 SX-102B SX-401 SX-402D SX-102D	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
AM-500D* WV-110 WV 23 SX-007 DG-30 LB-23 WV-23A LB-23A WV-110 LB-120 DG-130D 007-140	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

*Add a .01 capacitor in series with the white lead.

SS-747B	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-N.C.
605	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
T-123B TR-123D	Wh-1 Sh-4 Yel-N.C Bl-3 Red-2 Bk-N.C.

ROBYN (Continued)

Equipment	
SB-510D SB-520D	Wh-1 Sh-2 Yel-N.C Bl-4 Red-3 Bk-N.C.

*Add a .01 microtarad capacitor in series with the white lead

T-240D	Wh-1 Sh-3 Yel-N C Bl-4 Red-2 Bk-N.C.

*Add a .01 microtarad capacitor in series with the white lead

440	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
SB-540D	Wh-1 Sh-2 Yel-N C Bl-2 Red-3 Bk-N C
SB-505D	NOT COMP

ROMAR

CB-7000	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
ACT-1914	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

ROYCE

1-600	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Control Bk-Spkr
1-600A 1-600B 1-620 1-608 1-611 651	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-601 1-602A 1-640 1-606 1-603 1-624 1-625 1-673 1-610 1-617	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-630	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-N.C.
1-648 1-619 1-604	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-609	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-5
1-675 1-632 1-658 1-636 1-631 1-605A 1-635 1-630 (4 Pin) 1-650 1-655 1-653B 1-641 1-660 1-678 1-680 1-642 1-662 1-682	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-602 1-605	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
1-621 1-612 1-631 1-639 1-607	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
1-614	Wh-5 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-N.C.

RYSTAL

Equipment	
CBR-1800	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CBR-1700	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
CB-523	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N C

SANYO

TA-1000	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
TA901A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bkl-3

SBE

1CB	Wh-Audio Sh-Gnd Yel-N.C. Bl-Gnd Red-Relay Bk-N.C.
7CB (Sierra)	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
8CB (Console) 16CB (Console 11) 40 CB (Console V) 10 CB (Coranodo 11) 12 CB (Sidebander 11) 14 CB (Super Console) 6 CB	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
23 CB (Capri 11) 22 CB (Catalina 11)	Wh-Wh Sh-Sh Yel-Bl Bl-Red Red-Bk Bk-Brn
34 CB (Brute)	Wh-Wh Sh-Sh Yel-Grn Bl-Blk Red-Red Bk-Bl
9 CB (Catalina)	Wh-Audio Sh-Gnd Yel-N.C. Bl-Relay Red- +12V Bk-N.C.
18 CB (Sidebander III) 21 CB (Cortez) 26 CB (Formula D) 29 CB (Catalina III) 30 CB (Trinidad II) SBE-27CB/A (Sidebander IV) SBE-39CB (Sidebander V) SBE-40CB (Console V) SBE-41CB (Aspen) SBE-42CB (Cortez 40) SBE-44CB (Malibu 40) SBE-45CB (Trinidad III) SBE-54CB (Key/Com 1000) SBE-50CB (Console VI)	Wh-2 Sh-1 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Delmar 225 LCM-5 (Land Command)	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
49CB Tahoe Land Command (LCM-8)	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-5 Bk-1
Land Command (LCM-8)	Wh-1 Sh-4 Yel-N.C. Bl-4 Red-5 Bk-3

SBE (Continued)

Equipment	
LCBS-4	Wh-4 Sh-2 Yel-N Bl-2 Red-3 Bk-1

M. H. COTT

Dak Mark IX Dak Mark X	Wh-1 Sh-2 Yel-N Bl-3 Red-4 Bk-N C
Dak Mark III Dak Mark II Dak Mark V	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-5

SEARS

863.38070700 934.36770500 934.36710500 934.36740500 934.36772600 934.36771500 934.38310700 Road talker (3822) 934.36742600 370.38050700 562.38200700 934.38120700 934.38080700 934.38110700 934.38081700 934.38060700 934.38062700 934.38270700 934.38260700 663.38020800 663.38000900	Wh-4 Sh-1 Yel-N Bl-1 Red-3 Bk-5

SHAKESPEARE

GBS-2500 GBS-1500 GBS-240	Wh-1 Sh-2 Yel-N Bl-2 Red-4 Bk-3
GBS-2000	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-4
740	Wh-1 Sh-4 Yel-N Bl-3 Red-5 Bk-N
840	Wh-4 Sh-1 Yel-N Bl-1 Red-5 Bk-5

SHIRP

CB-700 CB-800 CB-2260 CB-2460 CB-750A CB-800A CB-4370 CB-2170 CB-5470	Wh-1 Sh-4 Yel-N Bl-3 Red-2 Bk-N
CBT-58 CB-500UB CB-550UB	Wh-A Sh-G Yel-N Bl-Bn Red-R Bk-N.

SILTRONIX

1011C	Wh-R Sh-Sl Yel-N Bl-Sle Red-T Bk-N
Apache Mohawk	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-N
SSB-23	Wh-1 Sh-4 Yel-N Bl-4 Red-2 Bk-N

SONAR

Model E FS-23 Model G Model H FS-3023 FS-2340	Wh-R Sh-Sl Yel-N Bl-Sle Red-T Bk-N
J-23	Wh-W Sh-Sl Yel-N Bl-Sh Red-R Bk-Bl

SPARKOMATIC

CB-1023	Wh-1 Sh-2 Yel-N Bl-2 Red-3 Bk-5

SPARKOMATIC (Continued)

Equipment	
CB 2023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
CB-1123 CB-5100 CB-5000 CB-1040	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
CB-2123	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-2 Bk-3

STANDARD COMMUNICATIONS

Horizon 29 Horizon 29A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

SUMISONIC

1012	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.

SURVEYOR

CB-2600	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
2100 2300	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
2400	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
2610	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
2620	NOT COMP
2630	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

TEABERRY

Model T-Control New T-Charlie One	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
Big T	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Five X Five	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MINI T	Wh-1 Sh-2 Yel-5 Bl-6 Red-3 Bk-4

T-UG9 Golden Eagle Special Instructions:
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Twin T	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
Model T	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

TEABERRY (Continued)

Equipment	
T Charlie One	Wh-2 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-4
Stalker V Stalker XII Golden 5 x 5 TB-73 New Big T "T" Bear Titan "T" T Dispatch T Bear T Command	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Ship's Radio	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Stalker One Stalker Two Stalker 202 Stalker 101	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Mighty-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
Tele-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-5 Bk-3
T-Scout	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Violet
Racer T* T Hawk T Charlie	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

*23 channel RACER T radios require a 47K resistor in series with white lead to prevent damage to the radio.

Ranger T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
Stalker IV	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Stalker XV Stalker IX	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
Stalker VIII	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
Stalker III	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

TEMPO

ONE	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

TOKAI

TC-1001	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
TC-5007	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5014 TC-5010 PW-5024	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5040	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

TOKAI (Continued)

Equipment	
TC-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

TRAM

Corsair 464 TR 27 D/E XL-100	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
D201A D201 Titan Titan 11 Titan 11A Titan 111 Tita IV	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Diamond 60 Diamond 40 XL XL-5 XL-23 D12 D42 D62 D64	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
D300 D80	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

TRS - CHALLENGER

1400 850	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

UNIMETRICS

Dolphone	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Seahouse 1	Wh-M4 Sh-G Yel-N.C. Bl-Bl Red-T2 Bk-R3
Marlin 1 Porpoise 1 Mako I	Wh-4 Sh-G Yel-N.C. Bl-1 Red-2 Bk-3
Stingray-II	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

UTAC

Micromini 23 St-23	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
TRX-30 TR-18M	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Studio-4000	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TRX-2000	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRX-400 TRX-500	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-4

VECTOR

X	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

WELL

W-605	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

WINSOR

Equipment	
W-60	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

XTAL

XCB-4 XCB-28	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
XSSB-10	Wh-5 Sh-6 Yel-N.C. Bl-6 Red-1 Bk-N.C.
XCB-11 XCB-5	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
XCB-12	Wh-4 Sh-5 Yel-N.C. Bl-1 Red-3 Bk-N.C.
XCB-6	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3
XCB-7 XCB-71	Wh-1 Sh-6 Yel-N.C. Bl-6 Red-3 Bk-5
XCB-88	NOT COMP
XCB-23A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

YAESU

FT-101B FT-101E FT-301D FT-901	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
FT-401B	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

ZODIAC

M-5026	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
M-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

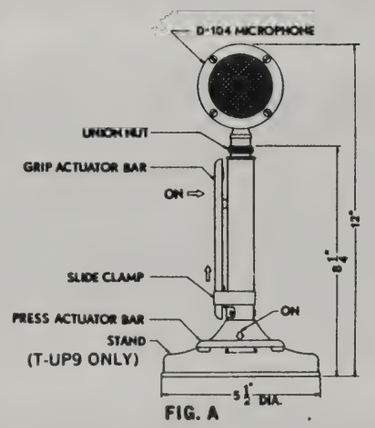


FIG. A

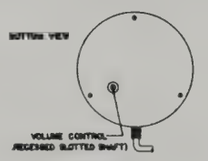


FIG. C

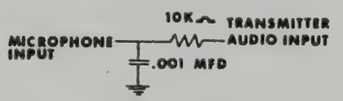


FIG. D

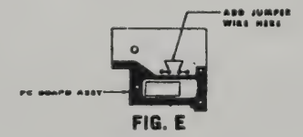
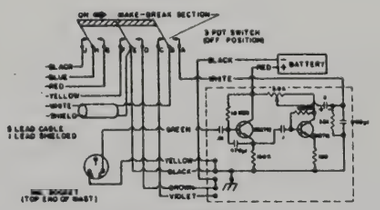
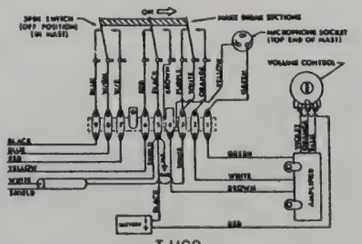


FIG. E



T-UP9 STAND SCHEMATIC

FIG. G



T-UG9
GOLDEN EAGLE

FIG. I

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

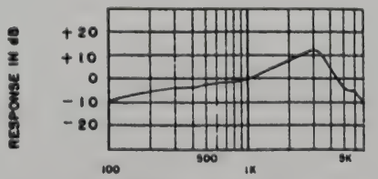


FIG. J

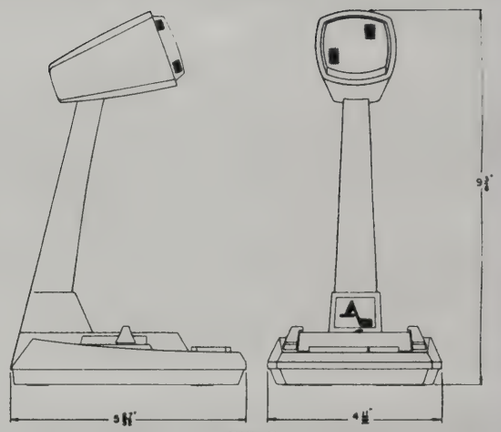
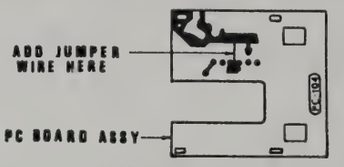
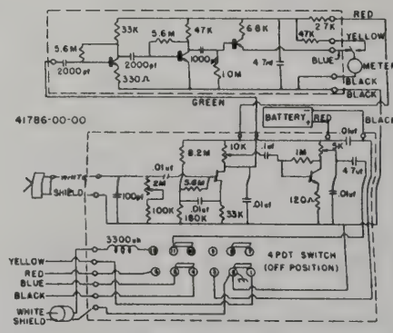


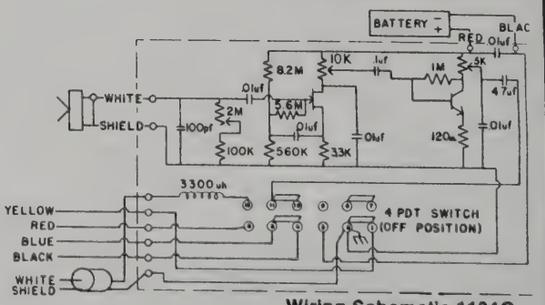
FIG. B



1104C AMPLIFIER BOARD



Wiring Schematic 1104CM



Wiring Schematic 1104C

TYPICAL RESPONSE - FREQUENCY CHARACTERISTICS

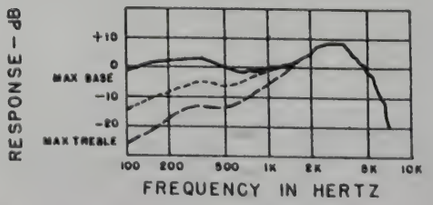


FIG. K

ASTATIC

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

SPARKOMATIC (Continued)

Equipment	
CB 2023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
CB-1123 CB-5100 CB-5000 CB-1040	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
CB-2123	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-2 Bk-3

STANDARD COMMUNICATIONS

Horizon 29 Horizon 29A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

SUMISONIC

1012	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.

SURVEYOR

CB-2600	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
2100 2300	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
2400	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
2610	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
2620	NOT COMP
2630	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

TEABERRY

Model T-Control New T-Charlie One	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
Big T	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Five X Five	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MINI T	Wh-1 Sh-2 Yel-5 Bl-6 Red-3 Bk-4

T-UG9 Golden Eagle Special instructions:
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 5
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Twin T	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
Model T	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

TEABERRY (Continued)

Equipment	
T Charlie One	Wh-2 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-4
Stalker V Stalker XII Golden 5 x 5 TB-73 New Big T "T" Bear Titan "T" T Dispatch T Bear T Command	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Ship's Radio	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Stalker One Stalker Two Stalker 202 Stalker 101	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Mighty-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
Tele-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-5 Bk-3
T-Scout	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Violet
Racer T* T Hawk T Charlie	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

*23 channel RACER T radios require a 47K resistor in series with white lead to prevent damage to the radio.

Ranger T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
Stalker IV	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Stalker XV Stalker IX	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
Stalker VIII	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
Stalker III	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

TEMPO

ONE	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

TOKAI

TC-1001	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
TC-5007	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5014 TC-5010 PW-5024	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5040	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

TOKAI (Continued)

Equipment	
TC-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

TRAM

Corsair 464 TR 27 D/E XL-100	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
D201A D201 Titan Titan 11 Titan 11A Titan 111 Tita IV	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Diamond 60 Diamond 40 XL XL-5 XL-23 D12 D42 D62 D64	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
D300 D80	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

TRS - CHALLENGER

1400 850	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

UNIMETRICS

Dolphone	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Seahouse 1	Wh-M4 Sh-G Yel-N.C. Bl-Bl Red-T2 Bk-R3
Marlin 1 Porpoise 1 Mako I	Wh-4 Sh-3 Yel-N.C. Bl-1 Red-2 Bk-3
Stingray-II	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

UTAC

Micromini 23 SI-23	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
TRX-30 TR-18M	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Studio-4000	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TRX-2000	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRX-400 TRX-500	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-4

VECTOR

X	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

WELL

W-605	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

WINSOR

Equipment	
W-60	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

XTAL

XCB-4 XCB-28	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
XSSB-10	Wh-5 Sh-6 Yel-N.C Bl-6 Red-1 Bk-N.C.
XCB-11 XCB-5	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C
XCB-12	Wh-4 Sh-5 Yel-N.C. Bl-1 Red-3 Bk-N.C
XCB-6	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3
XCB-7 XCB-71	Wh-1 Sh-6 Yel-N.C. Bl-6 Red-3 Bk-5
XCB-88	NOT COMP
XCB-23A	Wh-1 Sh-2 Yel-N.C Bl-2 Red-3 Bk-N.C

YAESU

FT-101B FT-101E FT-301D FT-901	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
FT-401B	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C

ZODIAC

M-5026	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
M-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

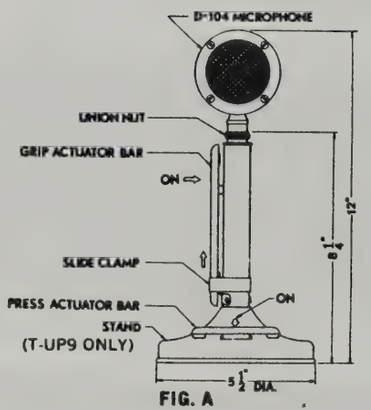


FIG. A

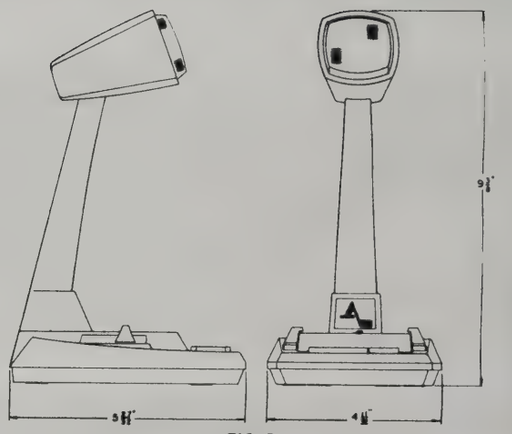


FIG. B

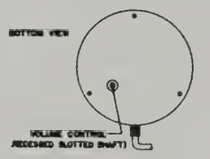
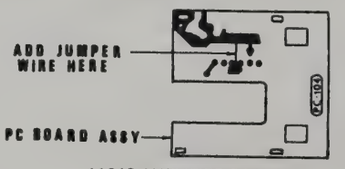


FIG. C



1104C AMPLIFIER BOARD

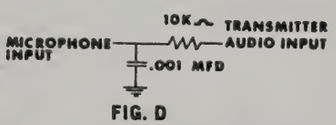
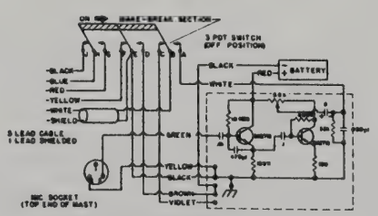


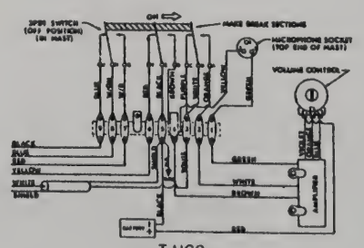
FIG. D

FIG. E



T-UP9 STAND SCHEMATIC

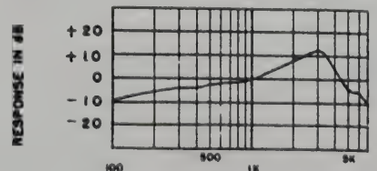
FIG. G



T-UG9
GOLDEN EAGLE

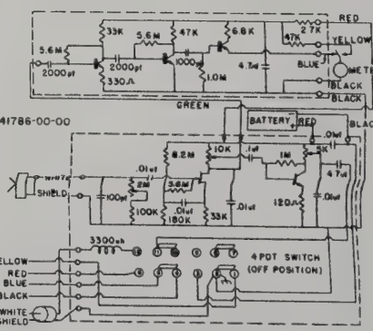
FIG. I

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

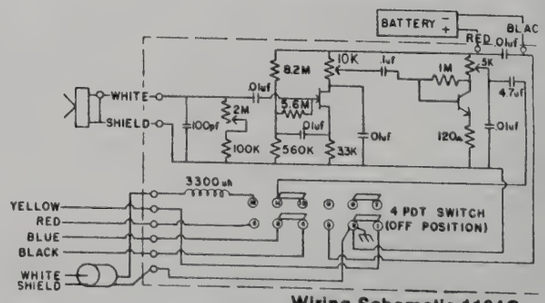


FREQUENCY IN HERTZ

FIG. J

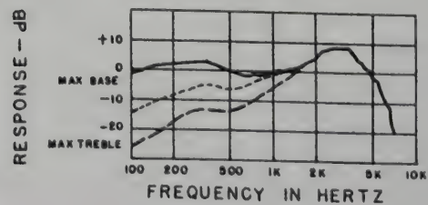


Wiring Schematic 1104CM



Wiring Schematic 1104C

TYPICAL RESPONSE - FREQUENCY CHARACTERISTICS



FREQUENCY IN HERTZ

FIG. K

ASTATIC

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

SPARKOMATIC (Continued)

Equipment	
CB 2023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
CB-1123 CB-5100 CB-5000 CB-1040	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
CB-2123	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-2 Bk-3

STANDARD COMMUNICATIONS

Horizon 29 Horizon 29A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

SUMISONIC

1012	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.

SURVEYOR

CB-2600	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
2100 2300	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
2400	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
2610	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
2620	NOT COMP
2630	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

TEABERRY

Model T-Control New T-Charlie One	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
Big T	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Five X Five	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MINI T	Wh-1 Sh-2 Yel-5 Bl-6 Red-3 Bk-4

T-UG9 Golden Eagle Special Instructions:
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Twin T	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
Model T	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

TEABERRY (Continued)

Equipment	
T Charlie One	Wh-2 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-4
Stalker V Stalker XII Golden 5 x 5 TB-73 New Big T "T" Bear Titan "T" T Dispatch T Bear T Command	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Ship's Radio	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Stalker One Stalker Two Stalker 202 Stalker 101	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Mighty-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
Tele-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-5 Bk-3
T-Scout	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Violet
Racer T* T Hawk T Charlie	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

*23 channel RACER T radios require a 47K resistor in series with white lead to prevent damage to the radio.

Ranger T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
Stalker IV	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Stalker XV Stalker IX	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
Stalker VIII	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
Stalker III	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

TEMPO

ONE	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

TOKAI

TC-1001	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
TC-5007	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5014 TC-5010 PW-5024	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5040	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

TOKAI (Continued)

Equipment	
TC-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

TRAM

Corsair 464 TR 27 D/E XL-100	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
D201A D201 Titan Titan 11 Titan 11A Titan 111 Tita IV	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Diamond 60 Diamond 40 XL XL-5 XL-23 D12 D42 D62 D64	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
D300 D80	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

TRS - CHALLENGER

1400 850	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

UNIMETRICS

Dolphone	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Seahouse 1	Wh-M4 Sh-G Yel-N.C. Bl-Bl Red-T2 Bk-R3
Marlin 1 Porpoise 1 Mako I	Wh-4 Sh-3 Yel-N.C. Bl-1 Red-2 Bk-3
Stingray-II	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

UTAC

Micromini 23 SI-23	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
TRX-30 TR-18M	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
Studio-4000	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TRX-2000	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRX-400 TRX-500	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-4

VECTOR

X	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

WELL

W-605	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

WINSOR

Equipment	
W-60	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

XTAL

XCB-4 XCB-28	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5
XSSB-10	Wh-5 Sh-6 Yel-N.C. Bl-6 Red-1 Bk-N.C.
XCB-11 XCB-5	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
XCB-12	Wh-4 Sh-5 Yel-N.C. Bl-1 Red-3 Bk-N.C.
XCB-6	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-3
XCB-7 XCB-71	Wh-1 Sh-6 Yel-N.C. Bl-6 Red-3 Bk-5
XCB-88	NOT COMP.
XCB-23A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.

YAESU

FT-101B FT-101E FT-301D FT-901	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
FT-401B	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

ZODIAC

M-5026	Wh-1 Sh-4 Yel-N.C. Bl-2 Red-3 Bk-N.C.
M-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

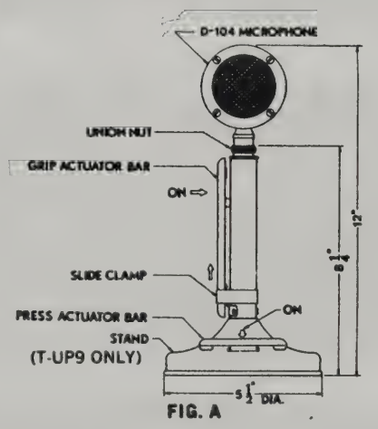


FIG. A

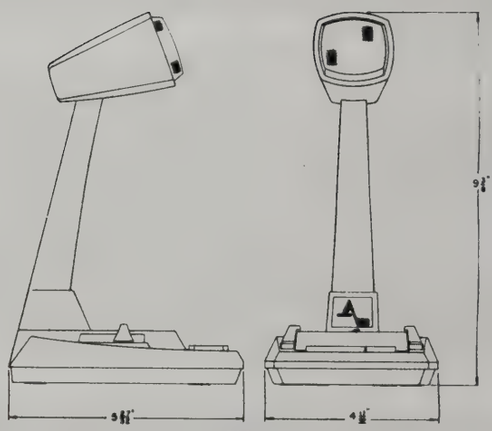


FIG. B

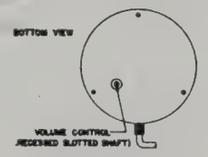
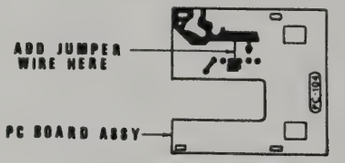


FIG. C



1104C AMPLIFIER BOARD

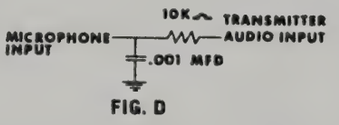
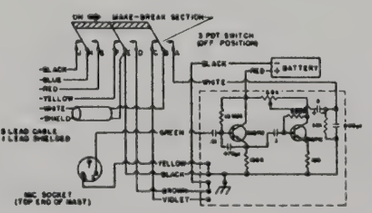


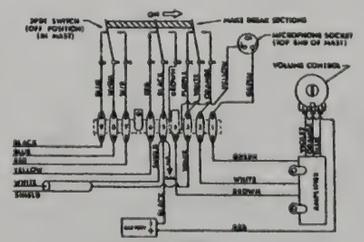
FIG. D

FIG. E



T-UP9 STAND SCHEMATIC

FIG. G



T-UG9
GOLDEN EAGLE

FIG. I

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

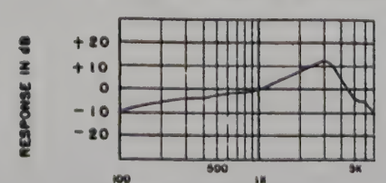
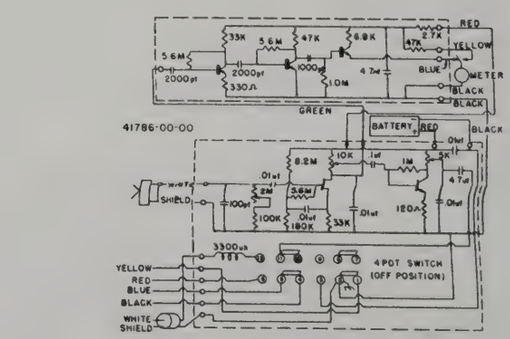
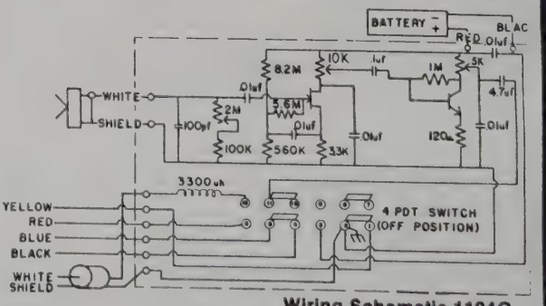


FIG. J



Wiring Schematic 1104CM



Wiring Schematic 1104C

TYPICAL RESPONSE - FREQUENCY CHARACTERISTICS

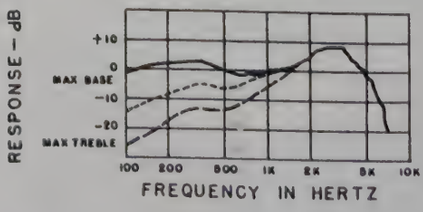


FIG. K

ASTATIC

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

SPARKOMATIC (Continued)

Equipment	
CB 2023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4
CB-1123 CB-5100 CB-5000 CB-1040	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
CB-2123	Wh-1 Sh-4 Yel-N.C. Bl-5 Red-2 Bk-3

STANDARD COMMUNICATIONS

Horizon 29 Horizon 29A	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4

SUMISONIC

1012	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.

SURVEYOR

CB-2600	Wh-3 Sh-4 Yel-N.C. Bl-4 Red-2 Bk-1
2100 2300	Wh-4 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
2400	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
2610	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-4
2620	NOT COMP
2630	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-4

TEABERRY

Model T-Control New T-Charlie One	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1
Big T	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Five X Five	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C.
MINI T	Wh-1 Sh-2 Yel-5 Bl-6 Red-3 Bk-4

T-UG9 Golden Eagle Special Instructions:
1. Cut and insulate Red Switch Lead Terminal 6
2. Cut White Switch Lead Terminal 3 and solder to Terminal 6
3. Cut White Amplifier Lead Terminal 2 and solder to Terminal 3
4. Add Jumper Wire Terminal 2 to Terminal 8

Twin T	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
Model T	Wh-1 Sh-3 Yel-N.C. Bl-4 Red-2 Bk-N.C.

TEABERRY (Continued)

Equipment	
T Charlie One	Wh-2 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-4
Stalker V Stalker XII Golden 5 x 5 TB-73 New Big T "T" Bear Titan "T" T Dispatch T Bear T Command	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3
Ship's Radio	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Stalker One Stalker Two Stalker 202 Stalker 101	Wh-1 Sh-3 Yel-N.C. Bl-2 Red-4 Bk-N.C.
Mighty-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5
Tele-T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-5 Bk-3
T-Scout	Wh-Yel Sh-Sh Yel-N.C. Bl-Sh Red-Red Bk-Violet
Racer T* T Hawk T Charlie	Wh-2 Sh-4 Yel-N.C. Bl-4 Red-3 Bk-1

*23 channel RACER T radios require a 47K resistor in series with white lead to prevent damage to the radio.

Ranger T	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C.
Stalker IV	Wh-4 Sh-3 Yel-N.C. Bl-3 Red-1 Bk-2
Stalker XV Stalker IX	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3
Stalker VIII	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-5
Stalker III	Wh-4 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-5

TEMPO

ONE	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.

TOKAI

TC-1001	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-5
TC-5007	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5014 TC-5010 PW-5024	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-N.C.
TC-5040	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3

TOKAI (Continued)

Equipment	
TC-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

TRAM

Corsair 464 TR 27 D/E XL-100	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C.
D201A D201 Titan Titan 11 Titan 11A Titan 111 Tita IV	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-4 Bk-N.C.
Diamond 60 Diamond 40 XL XL-5 XL-23 D12 D42 D62 D64	Wh-2 Sh-1 Yel-N.C. Bl-4 Red-3 Bk-N.C.
D300 D80	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-5 Bk-3

TRS - CHALLENGER

1400 850	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

UNIMETRICS

Dolphone	Wh-1 Sh-2 Yel-N.C. Bl-3 Red-2 Bk-N.C.
Seahouse 1	Wh-M4 Sh-G Yel-N.C. Bl-Bl Red-T2 Bk-R3
Marlin 1 Porpoise 1 Mako I	Wh-4 Sh-g Yel-N.C. Bl-1 Red-2 Bk-3
Stingray-II	Wh-1 Sh-4 Yel-N.C. Bl-3 Red-2 Bk-5

UTAC

Micromini 23 St-23	Wh-1 Sh-6 Yel-2 Bl-4 Red-5 Bk-3
TRX-30 TR-18M	Wh-1 Sh-2 Yel-N.C Bl-2 Red-3 Bk-N.C.
Studio-4000	Wh-1 Sh-3 Yel-N.C Bl-3 Red-2 Bk-N.C.
TRX-2000	Wh-3 Sh-2 Yel-N.C. Bl-2 Red-1 Bk-N.C.
TRX-400 TRX-500	Wh-1 Sh-3 Yel-N.C. Bl-3 Red-2 Bk-4

VECTOR

X	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

WELL

W-605	Wh-1 Sh-2 Yel-N.C. Bl-4 Red-3 Bk-N.C.

WINSOR

Equipment	
W-60	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-4 Bk-3

XTAL

XCB-4 XCB-28	Wh-1 Sh-2 Yel-N.C Bl-2 Red-3 Bk-5
XSSB-10	Wh-5 Sh-6 Yel-N.C Bl-6 Red-1 Bk-N.C
XCB-11 XCB-5	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-4 Bk-N.C.
XCB-12	Wh-4 Sh-5 Yel-N.C. Bl-1 Red-3 Bk-N.C
XCB-6	Wh-2 Sh-1 Yel-N.C Bl-1 Red-4 Bk-3
XCB-7 XCB-71	Wh-1 Sh-6 Yel-N.C. Bl-6 Red-3 Bk-5
XCB-88	NOT COMP
XCB-23A	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-N.C

YAESU

FT-101B FT-101E FT-301D FT-901	Wh-2 Sh-1 Yel-N.C. Bl-1 Red-3 Bk-N.C
FT-401B	Wh-Ring Sh-Sleeve Yel-N.C. Bl-Sleeve Red-Tip Bk-N.C

ZODIAC

M-5026	Wh-1 Sh-4 Yel-N.C Bl-2 Red-3 Bk-N.C.
M-5023	Wh-1 Sh-2 Yel-N.C. Bl-2 Red-3 Bk-5

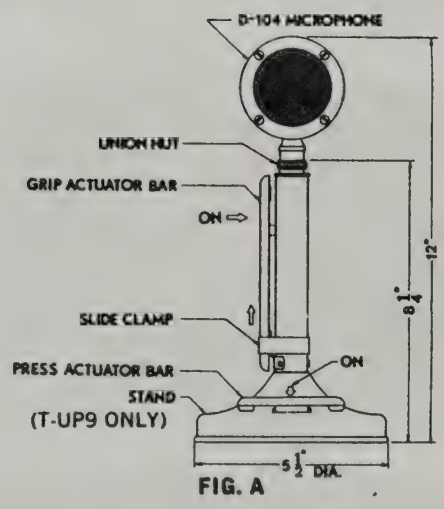


FIG. A

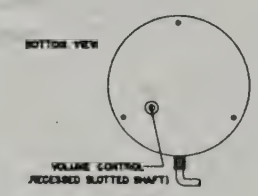


FIG. C

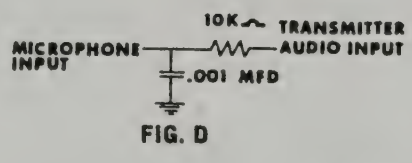


FIG. D

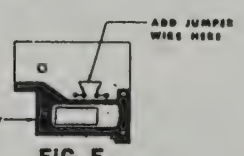
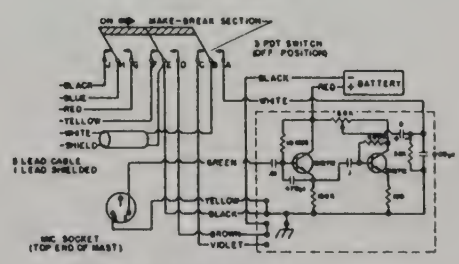
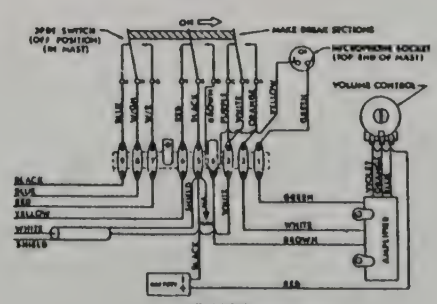


FIG. E



T-UP9 STAND SCHEMATIC

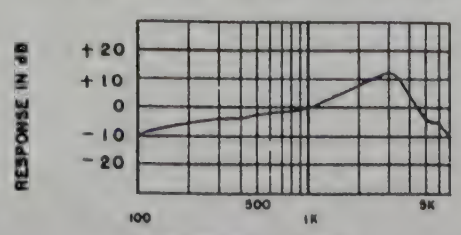
FIG. G



T-UG9
GOLDEN EAGLE

FIG. I

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS



FREQUENCY IN HERTZ

FIG. J

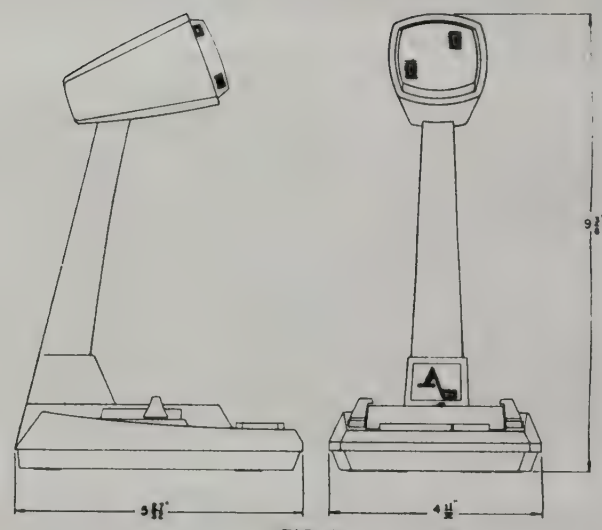
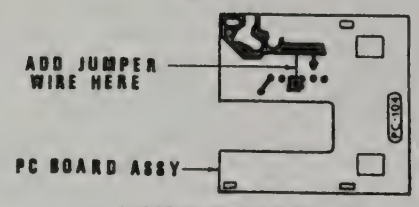
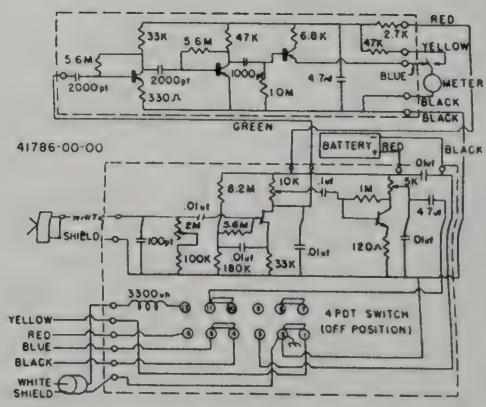


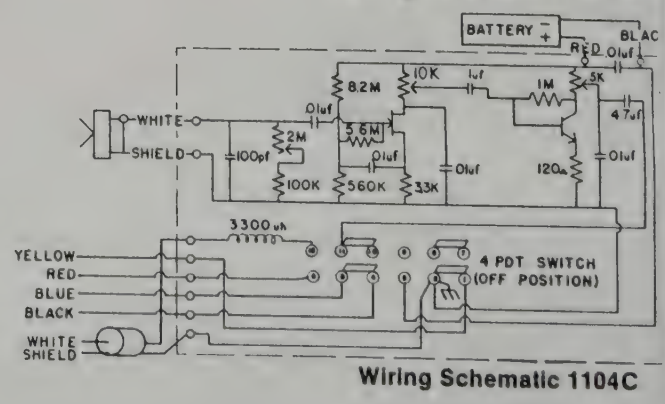
FIG. B



1104C AMPLIFIER BOARD

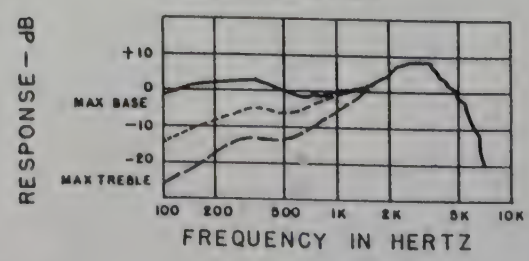


Wiring Schematic 1104CM



Wiring Schematic 1104C

TYPICAL RESPONSE-FREQUENCY CHARACTERISTICS



FREQUENCY IN HERTZ

FIG. K

ASTATIC

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

open battery replacement door, can be adjusted to prevent over-modulation and distortion. The amplifier is powered by a readily available, easily replaced, 9 volt battery. Six wire coil cord allows for relay, electronic or virtually any type hookup with almost any transmitter/transceiver. The audio line is open on receive.

open when the microphone is keyed. If you find these conditions then add the blue to the shield connection point, the red to the point that is grounded when keyed and the black to the point that is grounded when keyed.

If no lead in the original microphone is found to ground to the shield during receive, than the control is

Sh-2
Yel-N C
Bl-4
Red-3
Bk-N C

Yel-N.C.
Bl-Sh
Red-Red
Bk-Bk

Red-2
Bk-3

(Pirate)

Sh-5
Yel-N.C.
Bl-5
Red-4
Bk-N.C.

Yel-N.C
Bl-1
Red-3
Bk-4

Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

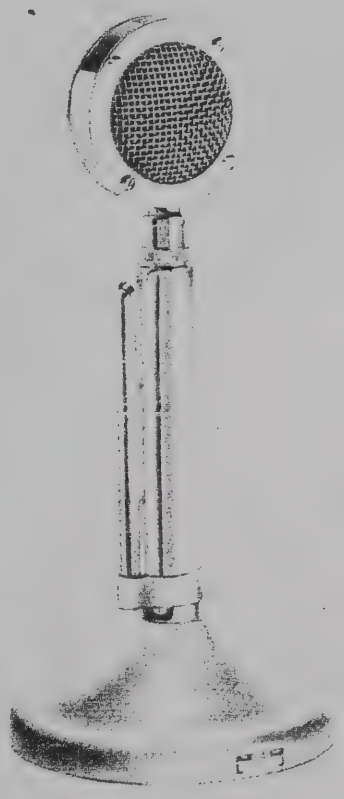
Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS

MODELS
T - UG9 - D104
& T - UG9

The T-UG9 Stand has a built-in two stage silicon transistor amplifier having high impedance input. The output impedance is suitable for the inputs of all commercial transmitters or transceivers. The high gain available ensures desired modulation capability. The gain can be readily adjusted for the desired modulation. The control is recessed to avoid accidental changes.

The T-UG9—D104 is a combination of the original super talk-power D-104 microphone with a transistorized rugged, versatile T-UG9 Stand. The result is an ideal base station microphone for CB, Amateur or other communications applications. Its relatively low impedance output can be fed into any communication receiver or transmitter. The tailored response and high gain ensures excellent talk-power and intelligibility — and full modulation.



FEATURES and SPECIFICATIONS

- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
- ATTRACTIVE FINISH: Durable polished chrome mast with gray Hammerlin base.
- NOISE-FREE AND CLICK-FREE SWITCHING: Uses heavy duty 3 PDT leaf type switch with palladium contacts. Low contact resistance of 20 milliohms; will not oxidize and requires no cleaning.

  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety. **
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG9 1 lb. 15½ oz. (with cable).
  T-UG9-D104 2 lbs. 9½ oz. (with cable).

** Caution Note: Care should be exercised in exciting relays with AC because of induced hum fields.

ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.2 ma.
- BATTERY LIFE: Approx. 6 mo. (based on normal usage).
- TEMPERATURE RANGE: Approx. -30° C. to +45° C. (Limited by crystal).
- "RELAY", "ELECTRONIC" or "SPECIAL CIRCUITS": By plug wiring.
- CABLE: Coiled cord; single conductor shielded plus four unshielded conductors.

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SPECIFICATIONS

T-UG9-D104 & T-UG9

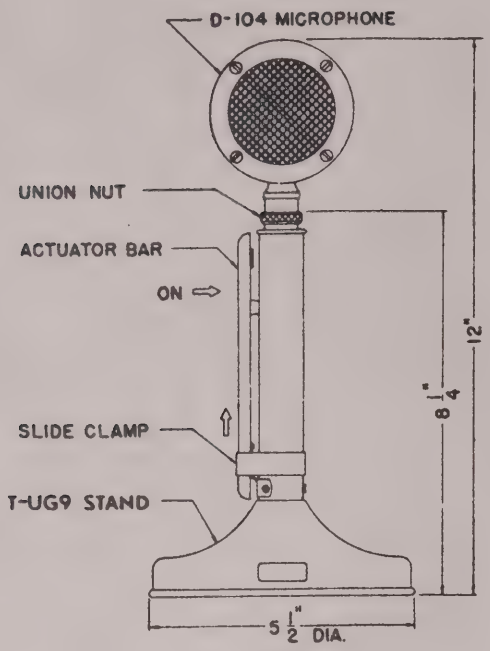
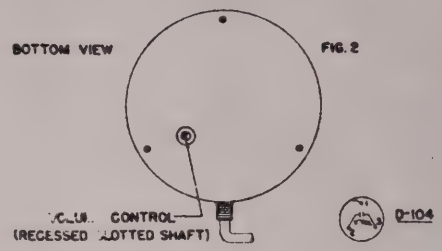


FIG. 1



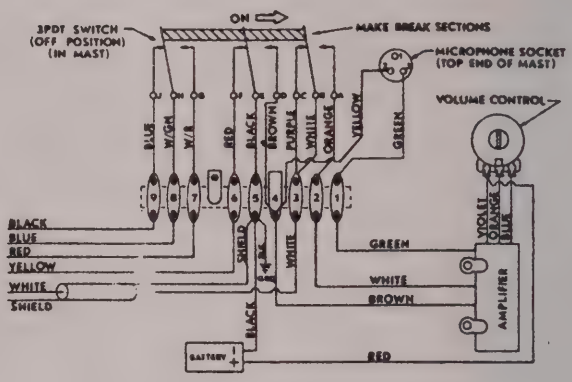


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

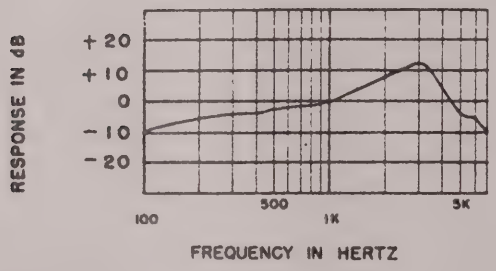


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY", "ELECTRONIC", or "SPECIAL" SWITCHING CONTROL: Most types of switching are possible by proper hookup wiring with no changes in the stand required. The stand is factory wired so that in the unoperated position the black wire is connected to the blue wire and the yellow wire is grounded to the shield. Depressing the actuator bar connects the red wire to the blue wire and ungrounds the yellow wire.

CABLE CONNECTOR WIRING: WHITE to audio input, SHIELD to ground, RED, BLACK, BLUE and YELLOW to control circuits.

OPERATION: ASTATIC "PLUG IN" MICROPHONE types are pre-wired for use with the T-UG9 Stand. Choose one of the compatible microphones from the listing shown on the front side. (For "CB" and "Communications" transmissions, many use the well known D-104 microphone.) Plug into and lock onto head of stand.

VOLUME CONTROL located in the base to eliminate accidental changes should be set at minimum gain — complete COUNTER CLOCKWISE position when viewed from bottom of stand. TURN "ON" the transmitter and squeeze the actuator bar in direction as noted in Fig. 1. Operating the actuator bar operates the transmit-receive circuits. While talking into the microphone at normal operating distance, slowly turn the volume control (Fig. 2) up until modulation is at desired level. Once properly set, the volume control should not require resetting under equivalent operating conditions.

For desired sensitive touch control — move slide clamp up in short steps to desired tension. For continuous or VOX operation — push slide clamp up to top.

To install the battery, remove the bottom cover by removing the three cover screws.

Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS

MODELS
T - UG9 - D104
& T - UG9

The T-UG9 Stand has a built-in two stage silicon transistor amplifier having high impedance input. The output impedance is suitable for the inputs of all commercial transmitters or transceivers. The high gain available ensures desired modulation capability. The gain can be readily adjusted for the desired modulation. The control is recessed to avoid accidental changes.

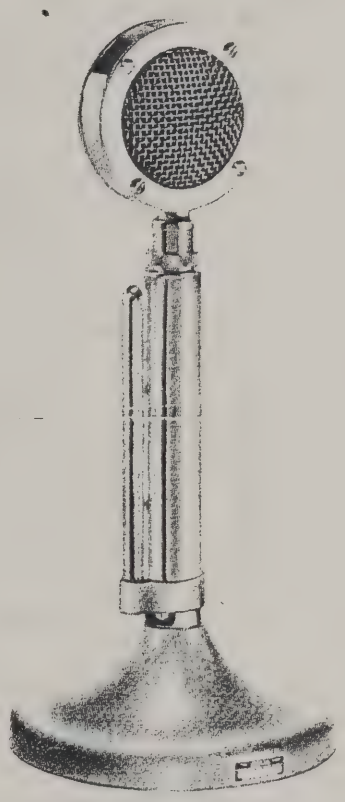
The T-UG9—D104 is a combination of the original super talk-power D-104 microphone with a transistorized rugged, versatile T-UG9 Stand. The result is an ideal base station microphone for CB, Amateur or other communications applications. Its relatively low impedance output can be fed into any communication receiver or transmitter. The tailored response and high gain ensures excellent talk-power and intelligibility — and full modulation.

FEATURES and SPECIFICATIONS

- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
- ATTRACTIVE FINISH: Durable polished chrome mast with gray Hammerlin base.
- NOISE-FREE AND CLICK-FREE SWITCHING: Uses heavy duty 3 PDT leaf type switch with palladium contacts. Low contact resistance of 20 milliohms; will not oxidize and requires no cleaning

  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety. **
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG9 1 lb. 15½ oz. (with cable).
  T-UG9-D104 2 lbs. 9½ oz. (with cable).

** Caution Note: Care should be exercised in exciting relays with AC because of induced hum fields.



ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.2 ma.
- BATTERY LIFE: Approx. 6 mo. (based on normal usage).
- TEMPERATURE RANGE: Approx. -30° C. to +45° C. (Limited by crystal).
- "RELAY", "ELECTRONIC" or "SPECIAL CIRCUITS": By plug wiring.
- CABLE: Coiled cord; single conductor shielded plus four unshielded conductors.

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SPECIFICATIONS

T-UG9-D104 & T-UG9

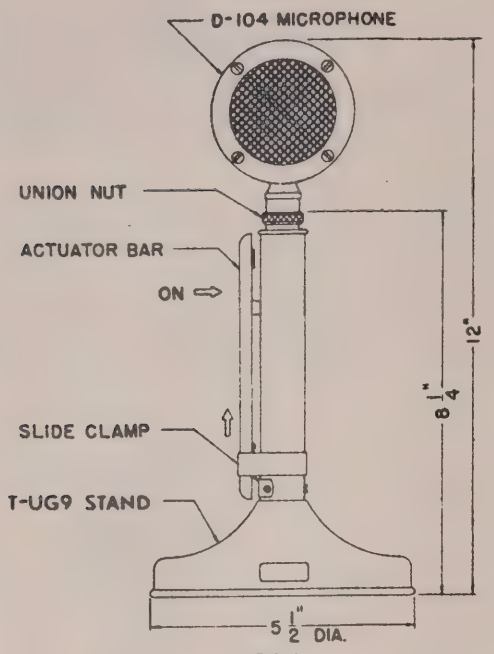
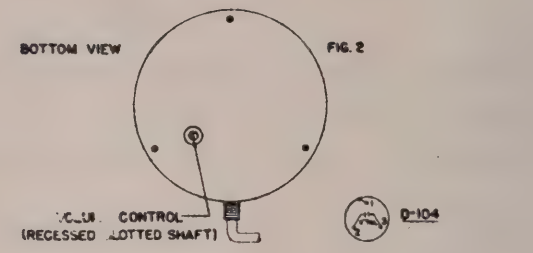


FIG. 1



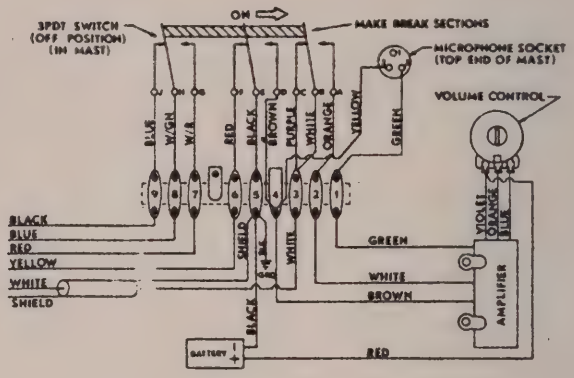


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

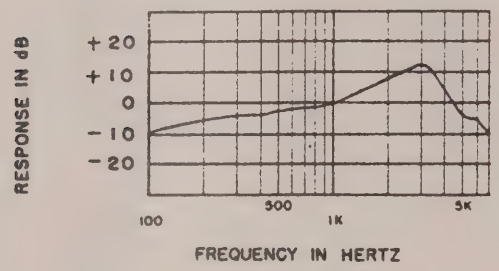


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY", "ELECTRONIC", or "SPECIAL" SWITCHING CONTROL: Most types of switching are possible by proper hookup wiring with no changes in the stand required. The stand is factory wired so that in the unoperated position the black wire is connected to the blue wire and the yellow wire is grounded to the shield. Depressing the actuator bar connects the red wire to the blue wire and ungrounds the yellow wire.

CABLE CONNECTOR WIRING: WHITE to audio input, SHIELD to ground, RED, BLACK, BLUE and YELLOW to control circuits.

OPERATION: ASTATIC "PLUG IN" MICROPHONE types are pre-wired for use with the T-UG9 Stand. Choose one of the compatible microphones from the listing shown on the front side. (For "CB" and "Communications" transmissions, many use the well known D-104 microphone.) Plug into and lock onto head of stand.

VOLUME CONTROL located in the base to eliminate accidental changes should be set at minimum gain — complete COUNTER CLOCKWISE position when viewed from bottom of stand. TURN "ON" the transmitter and squeeze the actuator bar in direction as noted in Fig. 1. Operating the actuator bar operates the transmit-receive circuits. While talking into the microphone at normal operating distance, slowly turn the volume control (Fig. 2) up until modulation is at desired level. Once properly set, the volume control should not require resetting under equivalent operating conditions.

For desired sensitive touch control — move slide clamp up in short steps to desired tension. For continuous or VOX operation — push slide clamp up to top.

To install the battery, remove the bottom cover by removing the three cover screws.

Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS

MODELS
T - UG9 - D104
& T - UG9

The T-UG9 Stand has a built-in two stage silicon transistor amplifier having high impedance input. The output impedance is suitable for the inputs of all commercial transmitters or transceivers. The high gain available ensures desired modulation capability. The gain can be readily adjusted for the desired modulation. The control is recessed to avoid accidental changes.

The T-UG9—D104 is a combination of the original super talk-power D-104 microphone with a transistorized rugged, versatile T-UG9 Stand. The result is an ideal base station microphone for CB, Amateur or other communications applications. Its relatively low impedance output can be fed into any communication receiver or transmitter. The tailored response and high gain ensures excellent talk-power and intelligibility — and full modulation.

FEATURES and SPECIFICATIONS

- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
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  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety. **
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG9 1 lb. 15½ oz. (with cable).
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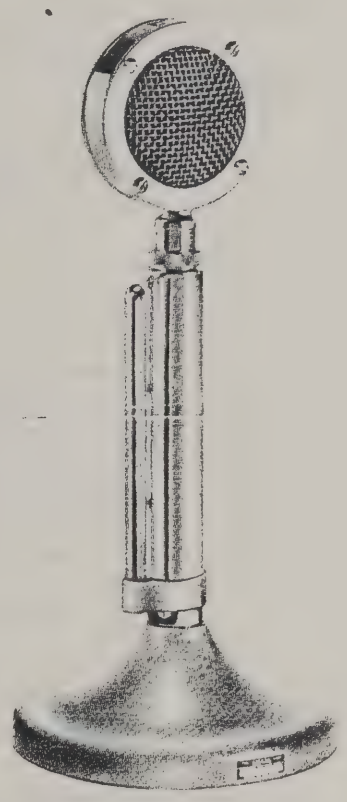
** Caution Note: Care should be exercised in exciting relays with AC because of induced hum fields.



ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.2 ma.
- BATTERY LIFE: Approx. 6 mo. (based on normal usage).
- TEMPERATURE RANGE: Approx. -30° C. to +45° C. (Limited by crystal).
- "RELAY", "ELECTRONIC" or "SPECIAL CIRCUITS": By plug wiring.
- CABLE: Coiled cord; single conductor shielded plus four unshielded conductors.

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SPECIFICATIONS

T-UG9-D104 & T-UG9

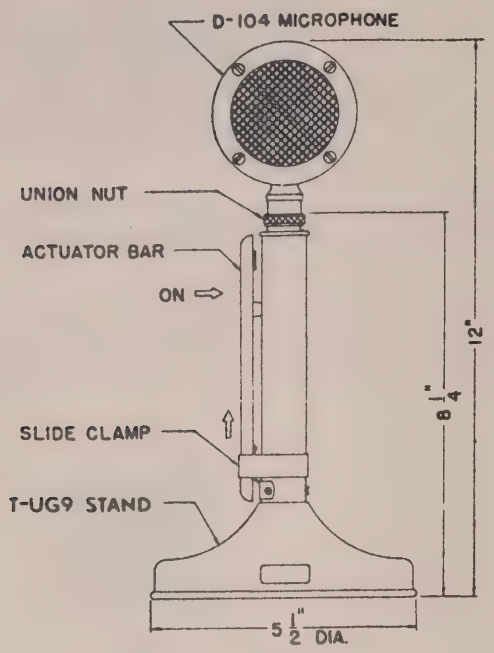
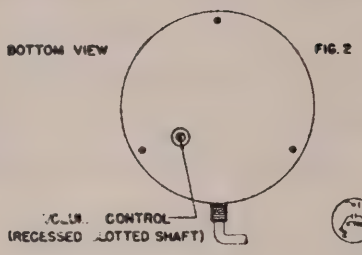


FIG. 1



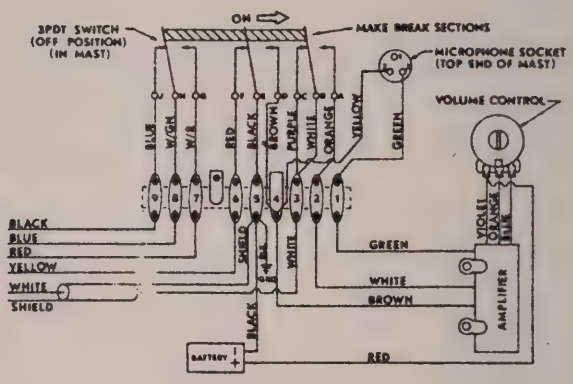


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

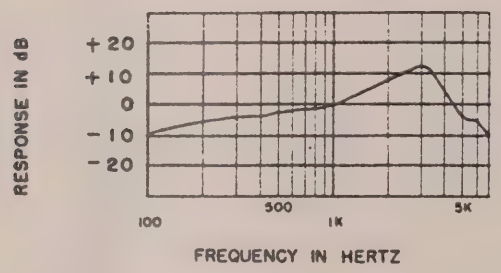


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY", "ELECTRONIC", or "SPECIAL" SWITCHING CONTROL: Most types of switching are possible by proper hookup wiring with no changes in the stand required. The stand is factory wired so that in the unoperated position the black wire is connected to the blue wire and the yellow wire is grounded to the shield. Depressing the actuator bar connects the red wire to the blue wire and ungrounds the yellow wire.

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VOLUME CONTROL located in the base to eliminate accidental changes should be set at minimum gain — complete COUNTER CLOCKWISE position when viewed from bottom of stand. TURN "ON" the transmitter and squeeze the actuator bar in direction as noted in Fig. 1. Operating the actuator bar operates the transmit-receive circuits. While talking into the microphone at normal operating distance, slowly turn the volume control (Fig. 2) up until modulation is at desired level. Once properly set, the volume control should not require resetting under equivalent operating conditions.

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To install the battery, remove the bottom cover by removing the three cover screws.

Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS

MODELS
T-UG9-D104
& T-UG9

The T-UG9 Stand has a built-in two stage silicon transistor amplifier having high impedance input. The output impedance is suitable for the inputs of all commercial transmitters or transceivers. The high gain available ensures desired modulation capability. The gain can be readily adjusted for the desired modulation. The control is recessed to avoid accidental changes.

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FEATURES and SPECIFICATIONS

- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
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- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG9 1 lb. 15½ oz. (with cable).
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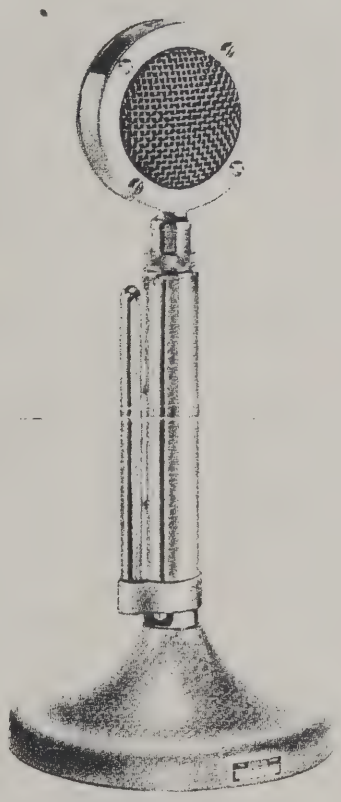
** Caution Note: Care should be exercised in exciting relays with AC because of induced hum fields.



ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.2 ma.
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SPECIFICATIONS

T-UG9-D104 & T-UG9

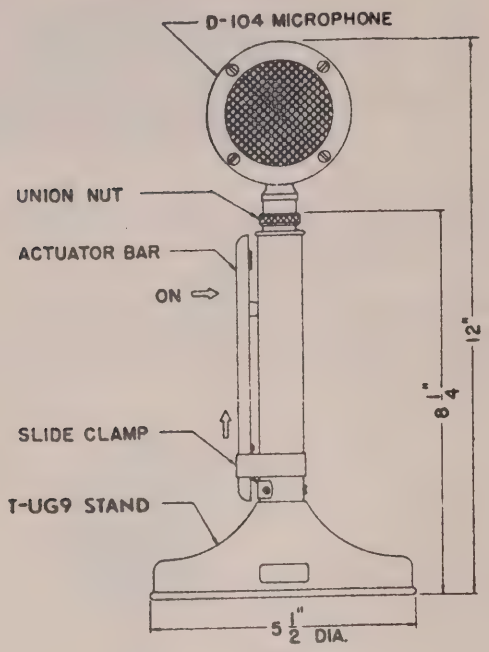
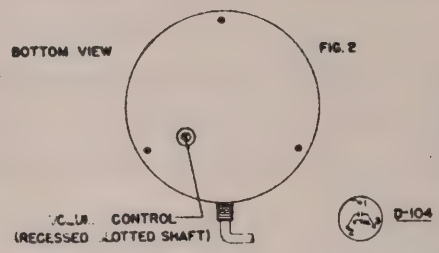


FIG. 1



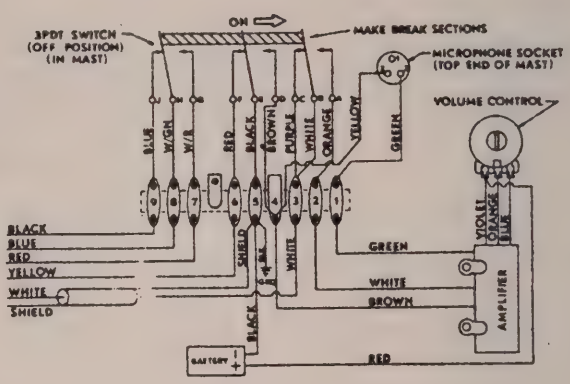


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

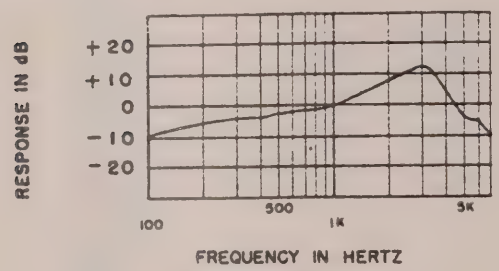


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY", "ELECTRONIC", or "SPECIAL" SWITCHING CONTROL: Most types of switching are possible by proper hookup wiring with no changes in the stand required. The stand is factory wired so that in the unoperated position the black wire is connected to the blue wire and the yellow wire is grounded to the shield. Depressing the actuator bar connects the red wire to the blue wire and ungrounds the yellow wire.

CABLE CONNECTOR WIRING: WHITE to audio input, SHIELD to ground, RED, BLACK, BLUE and YELLOW to control circuits.

OPERATION: ASTATIC "PLUG IN" MICROPHONE types are pre-wired for use with the T-UG9 Stand. Choose one of the compatible microphones from the listing shown on the front side. (For "CB" and "Communications" transmissions, many use the well known D-104 microphone.) Plug into and lock onto head of stand.

VOLUME CONTROL located in the base to eliminate accidental changes should be set at minimum gain — complete COUNTER CLOCKWISE position when viewed from bottom of stand. TURN "ON" the transmitter and squeeze the actuator bar in direction as noted in Fig. 1. Operating the actuator bar operates the transmit-receive circuits. While talking into the microphone at normal operating distance, slowly turn the volume control (Fig. 2) up until modulation is at desired level. Once properly set, the volume control should not require resetting under equivalent operating conditions.

For desired sensitive touch control — move slide clamp up in short steps to desired tension. For continuous or VOX operation — push slide clamp up to top.

To install the battery, remove the bottom cover by removing the three cover screws.

Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS

MODELS
T - UG9 - D104
& T - UG9

The T-UG9 Stand has a built-in two stage silicon transistor amplifier having high impedance input. The output impedance is suitable for the inputs of all commercial transmitters or transceivers. The high gain available ensures desired modulation capability. The gain can be readily adjusted for the desired modulation. The control is recessed to avoid accidental changes.

The T-UG9—D104 is a combination of the original super talk-power D-104 microphone with a transistorized rugged, versatile T-UG9 Stand. The result is an ideal base station microphone for CB, Amateur or other communications applications. Its relatively low impedance output can be fed into any communication receiver or transmitter. The tailored response and high gain ensures excellent talk-power and intelligibility — and full modulation.

FEATURES and SPECIFICATIONS

- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
- ATTRACTIVE FINISH: Durable polished chrome mast with gray Hammerlin base.
- NOISE-FREE AND CLICK-FREE SWITCHING: Uses heavy duty 3 PDT leaf type switch with palladium contacts. Low contact resistance of 20 milliohms; will not oxidize and requires no cleaning

  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety. **
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG9 1 lb. 15½ oz. (with cable).
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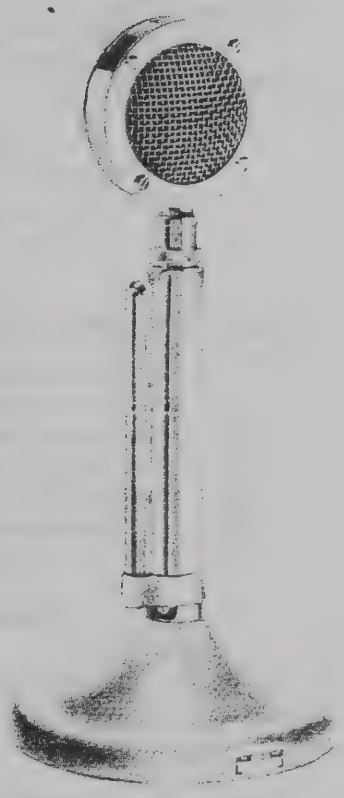
** Caution Note: Care should be exercised in exciting relays with AC because of induced hum fields.



ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.1 ma.
- BATTERY LIFE: Approx. 6 mo. (based on normal usage).
- TEMPERATURE RANGE: Approx. -30° C. to +45° C. (Limited by crystal).
- "RELAY", "ELECTRONIC" or "SPECIAL CIRCUITS": By plug wiring.
- CABLE: Coiled cord; single conductor shielded plus four unshielded conductors.

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T-UG9-D104 & T-UG9

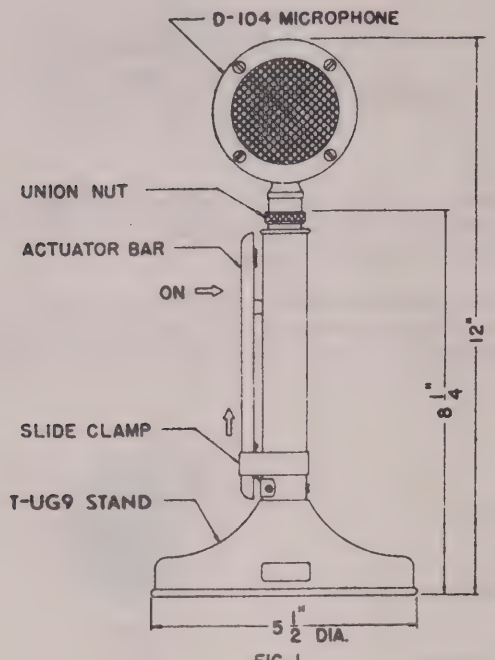
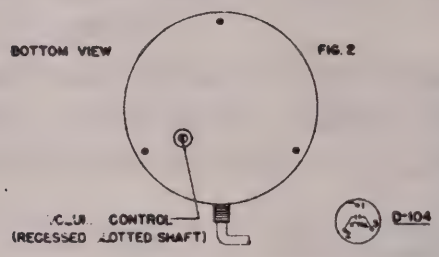


FIG. 1



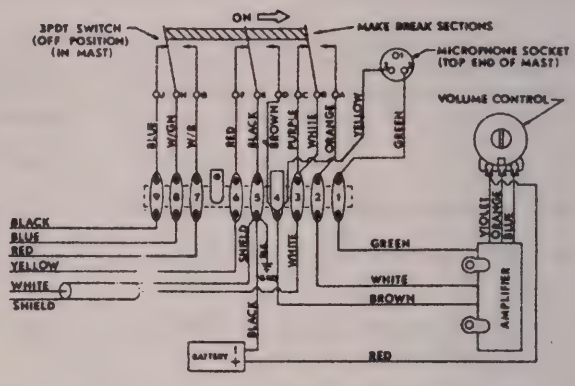


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

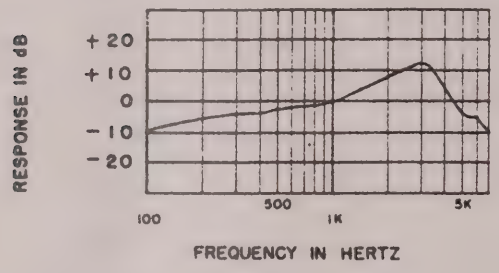


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY", "ELECTRONIC", or "SPECIAL" SWITCHING CONTROL: Most types of switching are possible by proper hookup wiring with no changes in the stand required. The stand is factory wired so that in the unoperated position the black wire is connected to the blue wire and the yellow wire is grounded to the shield. Depressing the actuator bar connects the red wire to the blue wire and ungrounds the yellow wire.

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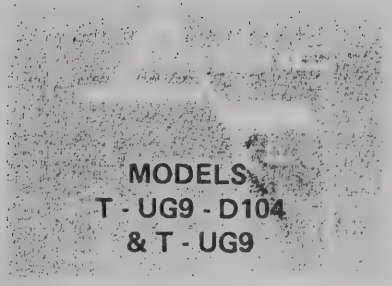
Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS



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FEATURES and SPECIFICATIONS

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  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety. **
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
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- SIZE: See Fig. 1.
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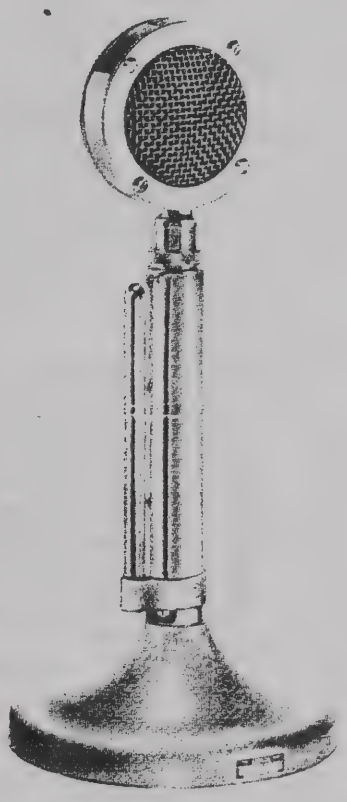

ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.2 ma.
- BATTERY LIFE: Approx. 6 mo. (based on normal usage).
- TEMPERATURE RANGE: Approx. -30° C. to +45° C. (Limited by crystal).
- "RELAY", "ELECTRONIC" or "SPECIAL CIRCUITS": By plug wiring.
- CABLE: Coiled cord; single conductor shielded plus four unshielded conductors.

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T-UG9-D104 & T-UG9

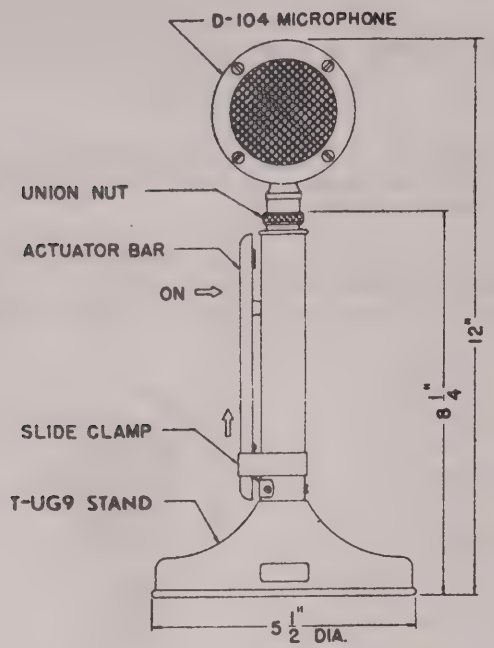
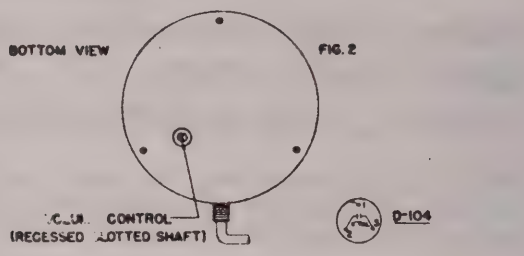


FIG. 1



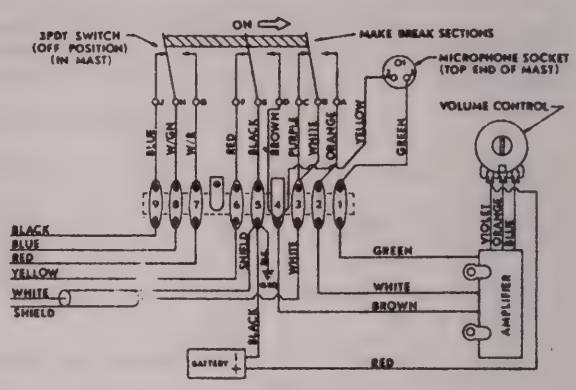


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

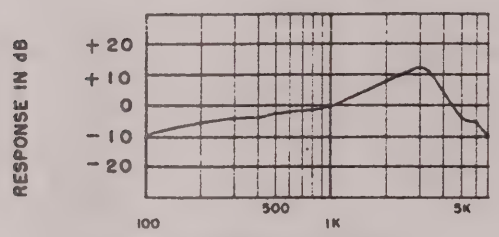


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

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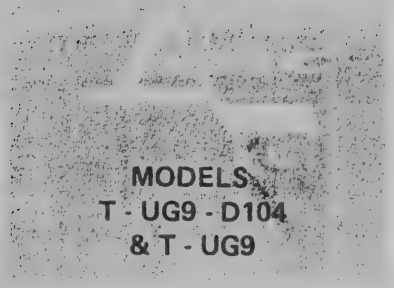
Model T-UG9 - D104 (Transistorized Desk Stand & D-104 Micro.)

Model T-UG9 (Transistorized Desk Stand)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE FOR C.B., HAM AND PROFESSIONAL USERS



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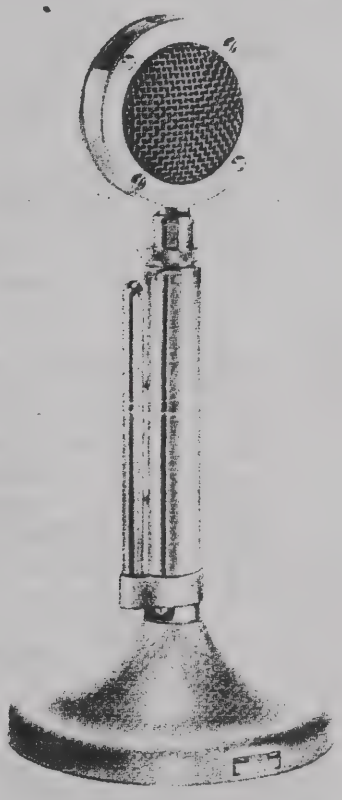

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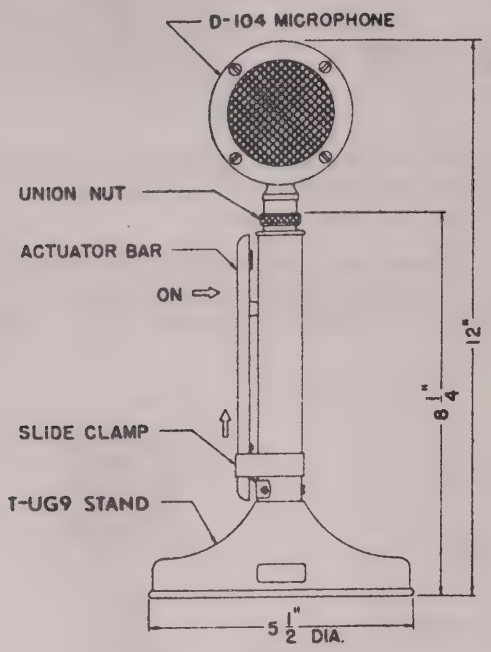

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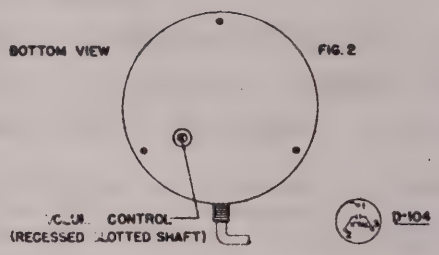

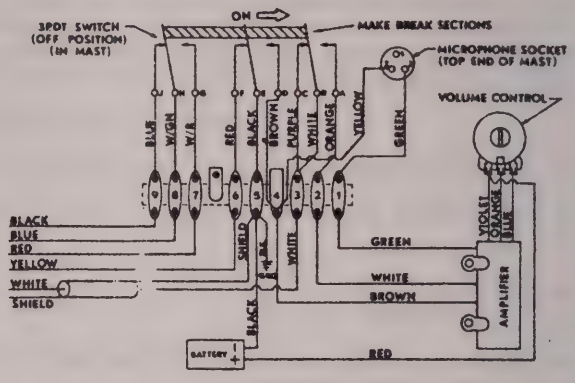

FIG. 3

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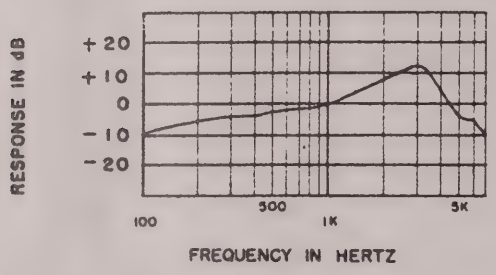
TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS



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& T - UG9

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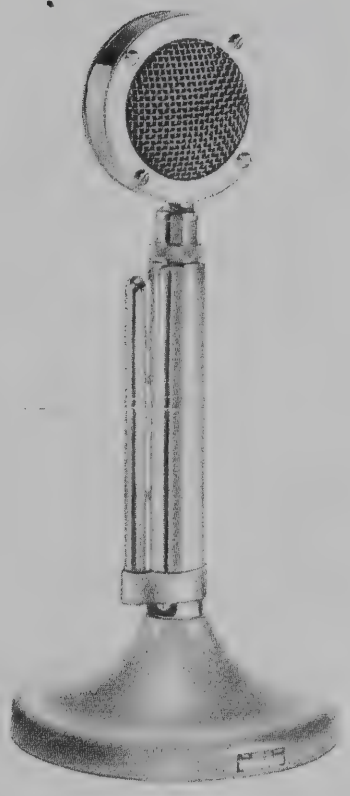
The T-UG9—D104 is a combination of the original super talk-power D-104 microphone with a transistorized rugged, versatile T-UG9 Stand. The result is an ideal base station microphone for CB, Amateur or other communications applications. Its relatively low impedance output can be fed into any communication receiver or transmitter. The tailored response and high gain ensures excellent talk-power and intelligibility — and full modulation.

FEATURES and SPECIFICATIONS



- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
- ATTRACTIVE FINISH: Durable polished chrome mast with gray Hammerlin base.
- NOISE-FREE AND CLICK-FREE SWITCHING: Uses heavy duty 3 PDT leaf type switch with palladium contacts. Low contact resistance of 20 milliohms; will not oxidize and requires no cleaning

  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety. **
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG9 1 lb. 15½ oz. (with cable).
  T-UG9-D104 2 lbs. 9½ oz. (with cable).

** Caution Note: Care should be exercised in exciting relays with AC because of induced hum fields.

ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG9 amplifier flat 200 Hz-20kHz.
  T-UG9-D104 tailored; See Fig. 4.
- OUTPUT LEVEL: T-UG9-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar.
  5000 Load = -26 dB re 1V/microbar.
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burges 2V6, Ray-O-Vac 1604, etc. (Not included).
- BATTERY DRAIN: 1.2 ma.
- BATTERY LIFE: Approx. 6 mo. (based on normal usage).
- TEMPERATURE RANGE: Approx. -30° C. to +45° C. (Limited by crystal).
- "RELAY", "ELECTRONIC" or "SPECIAL CIRCUITS": By plug wiring.
- CABLE: Coiled cord; single conductor shielded plus four unshielded conductors.

THE ASTATIC CORPORATION Harbor & Jackson Streets Conneaut, Ohio 44030-0120
Order Desk 800/421-3161 Sales (216) 593-1111 FAX: (216) 593-5395
EXPORT: Roburn Agencies, Inc., 111 Eighth Avenue, New York, NY 10011 TELEX: RCA 238029 ROBR UR, FAX No. 212-645-4234

SPECIFICATIONS

T-UG9-D104 & T-UG9

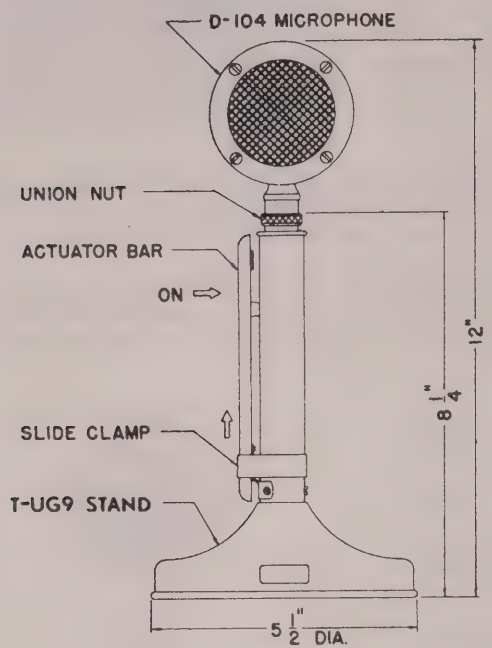
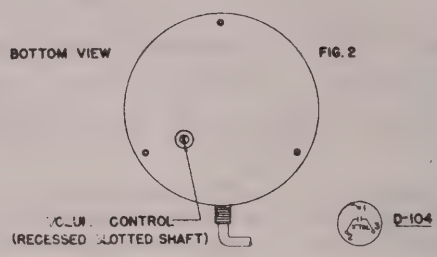


FIG. 1



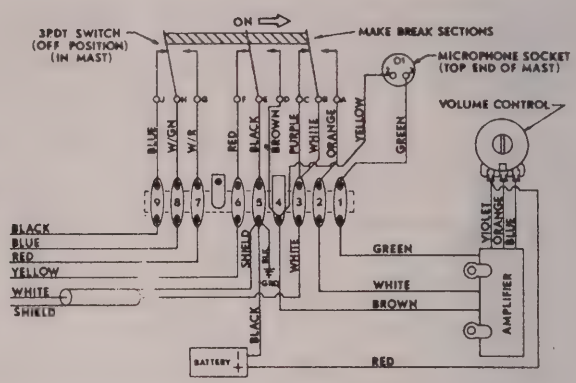


FIG. 3

T-UG9 STAND SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

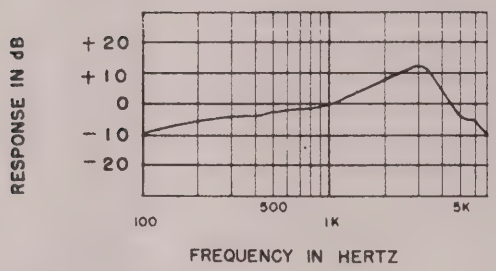


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45° C.; permanent damage may result.
2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY", "ELECTRONIC", or "SPECIAL" SWITCHING CONTROL: Most types of switching are possible by proper hookup wiring with no changes in the stand required. The stand is factory wired so that in the unoperated position the black wire is connected to the blue wire and the yellow wire is grounded to the shield. Depressing the actuator bar connects the red wire to the blue wire and ungrounds the yellow wire.

CABLE CONNECTOR WIRING: WHITE to audio input, SHIELD to ground, RED, BLACK, BLUE and YELLOW to control circuits.

OPERATION: ASTATIC "PLUG IN" MICROPHONE types are pre-wired for use with the T-UG9 Stand. Choose one of the compatible microphones from the listing shown on the front side. (For "CB" and "Communications" transmissions, many use the well known D-104 microphone.) Plug into and lock onto head of stand.

VOLUME CONTROL located in the base to eliminate accidental changes should be set at minimum gain — complete COUNTER CLOCKWISE position when viewed from bottom of stand. TURN "ON" the transmitter and squeeze the actuator bar in direction as noted in Fig. 1. Operating the actuator bar operates the transmit-receive circuits. While talking into the microphone at normal operating distance, slowly turn the volume control (Fig. 2) up until modulation is at desired level. Once properly set, the volume control should not require resetting under equivalent operating conditions.

For desired sensitive touch control — move slide clamp up in short steps to desired tension. For continuous or VOX operation — push slide clamp up to top.

To install the battery, remove the bottom cover by removing the three cover screws.

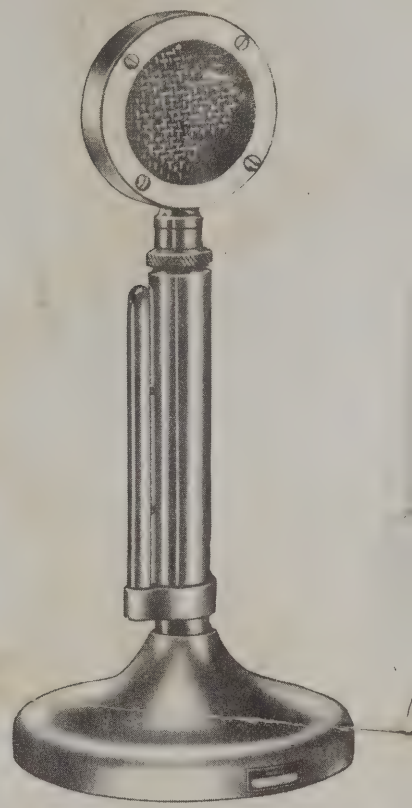
Model T-UG8 (Transistorized Desk Stand)
Model T-UG8-D104 (Transistorized Desk Stand & D-104 Micro.)

GRIP, PUSH, TOUCH OR LOCK ON-TO-TALK TYPE

ASTATIC

Models T-UG8 & T-UG8-D104

● THE STATUS SYMBOL FOR C.B., HAM AND PROFESSIONAL USERS ●



GENERAL DESCRIPTION

The T-UG8-D104 is a combination of the original super talk-power D-104 microphone with the transistorized version of the rugged and versatile UG-8 Stand (T-UG8). The result is an ideal base station microphone for CB, Amateur or other communications applications. Its relatively low impedance output can be fed into any communication receiver or transmitter. The tailored response and high gain ensures excellent talk-power and intelligibility - - and full modulation.

The T-UG8 Stand has a built-in two stage silicon transistor amplifier having high impedance input. The output impedance is suitable for the inputs of all commercial transmitters or transceivers. The high gain available ensures desired modulation capability. The gain can be readily adjusted for the desired modulation. The control is recessed to avoid accidental changes.

The unique Astatic "Plug-In" microphone design permits the use of any one of a series of available compatible model microphones.

Crystal	D-104 or T-3
Ceramic	D-104C or 10C
Dynamic	10DA, DN-HZ or DN-50
Dynamic Cardioid	77L or 811

FEATURES and SPECIFICATIONS

- D-104 MICROPHONE: High quality metal sealed type crystal.
- MICROPHONE RECEPTACLE: On top of stem, offers instant microphone change versatility.
- SWITCH BAR FOR EASY CONTROL: Can be locked "ON" by moving "slide clamp" to top of stand.
- HEAVY, TIP-FREE BASE: Sturdy, die-cast zinc construction protects the microphone from "tip over" damage.
- ATTRACTIVE FINISH: Durable polished chrome mast with gray Hammerlin base.
- NOISE-FREE AND CLICK-FREE SWITCHING: Uses heavy duty DPDT leaf type switch with fine silver contacts. Low contact resistance of 20 milliohms; will not oxidize and requires no cleaning.

  High current capability for relay operation allows up to 3 amperes DC and non-inductive AC loads with complete safety.**
- HIGH GAIN, TWO TRANSISTOR AMPLIFIER.
- RECESSED VOLUME CONTROL TO AVOID ACCIDENTAL CHANGES.
- SIZE: See Fig. 1.
- WEIGHT: T-UG8 2 lbs. 1½ oz. (with cable).
  T-UG8-D104 2 lbs. 11½ oz. (with cable).

** Caution Note: Care should be excerised in exciting relays with AC because of induced hum fields.

ELECTRONIC SPECIFICATIONS

- FREQUENCY RESPONSE: T-UG8 essentially flat 200 HZ-20KHz.
  T-UG8-D104 tailored; See Fig. 4.
- OUTPUT LEVEL TUG8-D104 @ 1000 Hz:
  1 meg. Load = -20 dB re 1V/microbar
  5000 Load = -26 dB re 1V/microbar
- POLAR PATTERN: Semidirectional.
- OUTPUT IMPEDANCE: 5000 ohms or less.
- AMPLIFIER VOLTAGE GAIN: 26 dB.
- BATTERY TYPE: 9 volt; Eveready 216, Burgess 2V6, Ray-O-Vac 1604, etc.
- BATTERY DRAIN: 1.2 ma.
- BATTERY LIFE: Approx. 6 mo.; based on normal usage.
- TEMPERATURE RANGE: Approx. -30°C. to +45°C. (Limited by crystal).
- "RELAY" or "ELECTRONIC" hookup: By internal switch.
- CABLE: Coiled cord; black vinyl jacket; single conductor shielded plus two unshielded conductors.

THE **ASTATIC** CORP.

MANUFACTURERS OF PHONOGRAPH CARTRIDGES
NEEDLES • PICKUPS • MICROPHONES

CONNEAUT, OHIO • U.S.A. 44030

PHONE: 593-1111 Area Code 216

IN CANADA: Canadian Astatic, Ltd.,
1820 Ellesmere Road, Scarborough, Ontario

EXPORT SALES: Morhan Exporting Corporation
270-78 Newtown Road, Plainview, New York 11803

ASTATIC specifications: T-UG8 & T-UG8-D104

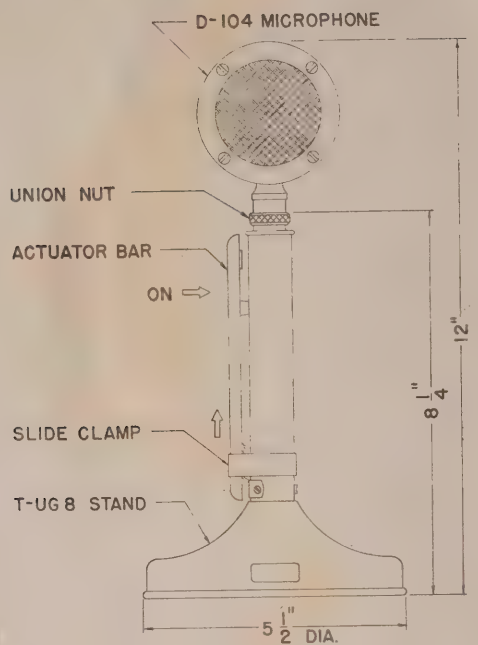
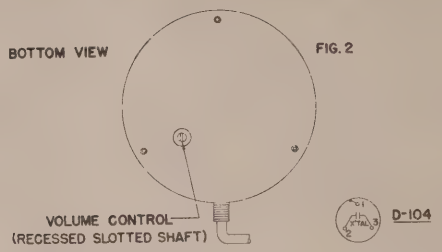


FIG. 1



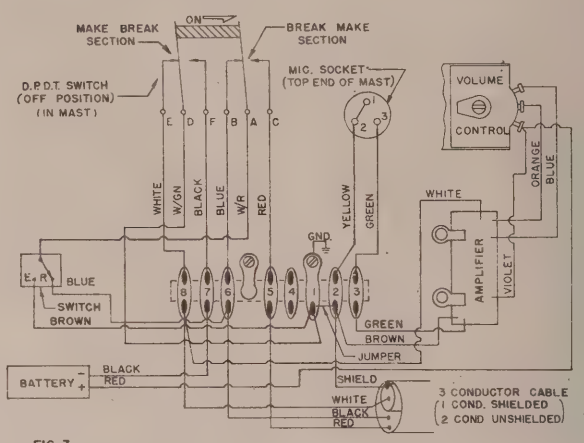


FIG. 3

SCHEMATIC

TYPICAL D-104 RESPONSE - FREQUENCY CHARACTERISTICS

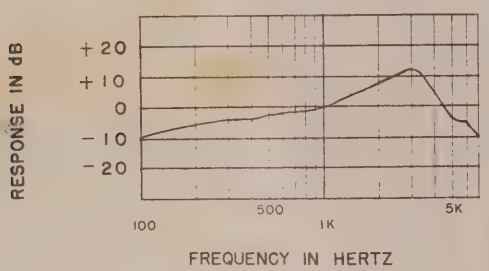


Fig. 4

NOTES:

1. Do not subject the crystals to temperatures over 45°C.; permanent damage may result.

2. The D-104 is one of a group of "Plug-In" microphones compatible with the "G" series of stands. It plugs into the top of the mast and is locked on by means of the union nut (See Fig. 1).

"RELAY" or "ELECTRONIC" SWITCHING CONTROL: "Relay" operation connects BLACK to RED cable wires when the actuator bar is operated. "Electronic" operation grounds the RED to shield when the bar is operated. When released, BLACK is grounded.

THE INTERNAL SLIDE SWITCH is placed in the "R" (RELAY) position at the factory. If electronic type control is desired, remove the bottom plate and slide the slide switch to "E" position. Replace the bottom plate.

CABLE CONNECTOR WIRING: WHITE to audio input, SHIELD to ground, RED and BLACK to control circuits.

OPERATION: ASTATIC "PLUG IN" MICROPHONE types are pre-wired for use with the T-UG8 Stand. Choose one of the compatible microphones from the listing shown on the front side. (For "CB" and "Communications" transmissions, many use the well known D-104 microphone.) Plug into and lock onto head of stand.

VOLUME CONTROL located in the base to eliminate accidental changes should be set at minimum gain - complete COUNTER CLOCKWISE position when viewed from bottom of stand. TURN "ON" the transmitter and squeeze the actuator bar in direction as noted in Fig. 1. Operating the actuator bar operates the transmit-receive circuits. While talking into the microphone at normal operating distance, slowly turn the volume control (Fig. 2) up until modulation is at desired level. Once properly set, the volume control should not require resetting under equivalent operating conditions.

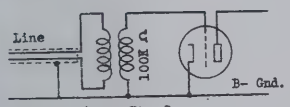
For desired sensitive touch control - move slide clamp up in short steps to desired tension. For continuous or VOX operation - push slide clamp up to top.

BATTERY REPLACEMENT: 9 volt battery, located inside the base of stand may be replaced with locally available Eveready 216, Burgess 2V6, Ray-O-Vac 1604, or equivalent.

To replace the battery, remove the bottom cover by removing the three cover screws.

Microphone D-104

:ET



ormer Coupling - Fig. 2

es. Do not install or store them temperatures beyond this point,

Pickups or Microphones. Check power supply connections.

ON

, Ontario
ew, N.Y.11803

(Instructions other s

MODEL 'G' GRIP-TO-TALK DESK STAND

HOOKUP INSTRUCTIONS

Remove bottom plate which is held by 3 screws, for access to terminal strip.

I. *STANDARD LINE; using single conductor shielded cable.
Cable connections:
Center conductor (for amplifier grid input) to Terminal "B".
Shield (ground) to Terminal "A".

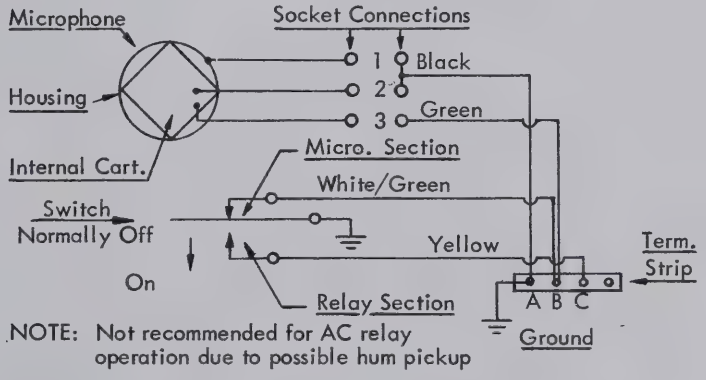
II. *STANDARD LINE; relay operation, using two conductor shielded cable.
Cable connections:
Microphone conductor (for amplifier grid input) to Terminal "B".
Relay conductor (relay control circuit) to Terminal "C".
Shield (common ground) to Terminal "A".

III. FOR CONTINUAL (VOX) OPERATION; remove white/green wire in switch circuit from Terminal "B".

NOTE: To hold switch bar in "ON" position, slide switch clamp up.

*Unbalanced to ground circuit (Note: conductor color codes of cables may vary)

"G" STAND - STANDARD HOOKUP

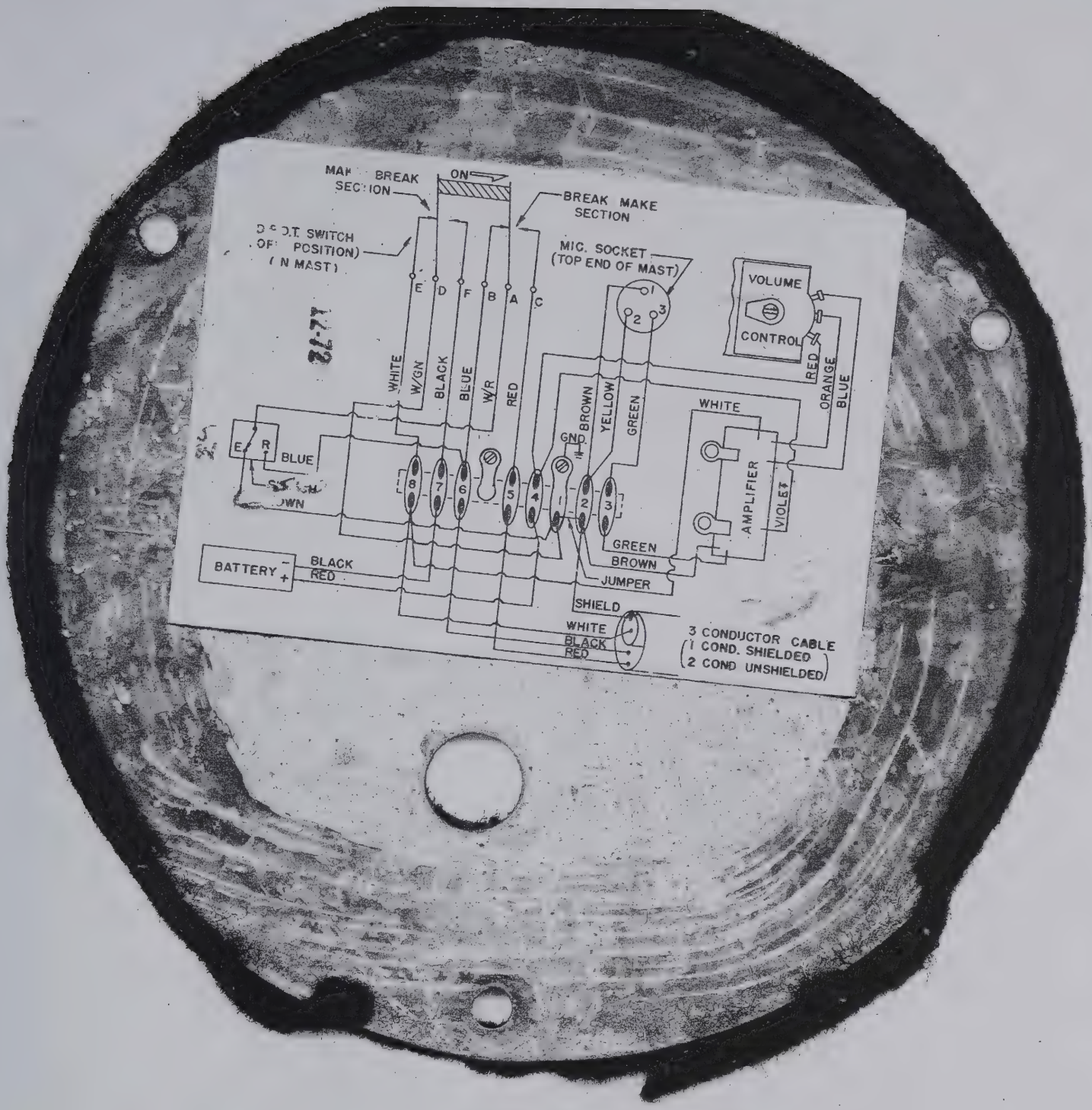


NOTE: Not recommended for AC relay operation due to possible hum pickup

THE ASTATIC CORPORATION
CONNEAUT, OHIO 44030

In Canada: Canadian Astatic, Ltd., 1820 Ellesmere Rd., Scarborough, Ontario
Export Sales: Morhan Exporting Corp., 270-78 Newtown Rd., Plainview, N.Y.11803

FORM 90-59


MAKE BREAK SECTION
ON
BREAK MAKE SECTION
D.P.D.T. SWITCH (OFF POSITION) (IN MAST)
MIC. SOCKET (TOP END OF MAST)
VOLUME CONTROL
E
D
F
B
A
C
WHITE
W/GN
BLACK
BLUE
W/R
RED
GND
BROWN
YELLOW
GREEN
RED
ORANGE
BLUE
WHITE
AMPLIFIER
VIOLET
BLUE
GREEN
BROWN
JUMPER
BATTERY
BLACK
RED
SHIELD
WHITE
BLACK
RED
3 CONDUCTOR CABLE
(1 COND. SHIELDED
2 COND UNSHIELDED)

ASTATIC DYNAMIC MICROPHONES

With the recent addition of the Models CD (Cardinal) and VD (Velvet Voice) Dynamic Microphones to the already established DN Series, Astatic now offers a selection of dynamic microphones to satisfy the most varied and exacting requirements.

The outstanding features of Astatic's dynamic microphones incorporate Astatic's UNITARY MOVING COIL SYSTEM, a magnetic structure of advanced design with ALNICO magnet and a carefully proportioned acoustic circuit. The UNITARY MOVING COIL SYSTEM positions the moving coil in its 'air-gap' with exact concentricity and small clearances to obtain high sensativity. The especially designed circular ALNICO '5' magnet used in the CD and VD Models, provides greater flux density resulting in higher output level, extended range and more stability. Its physical characteristics permit the design of more compact units without sacraficing high quality performance. Astatic dynamic microphones are not subject to changes in sensativity or response for any reason except improper handling. Under normal usage conditions they are not subject to overload distortion and may be used for close talking, medium or long range pickup.

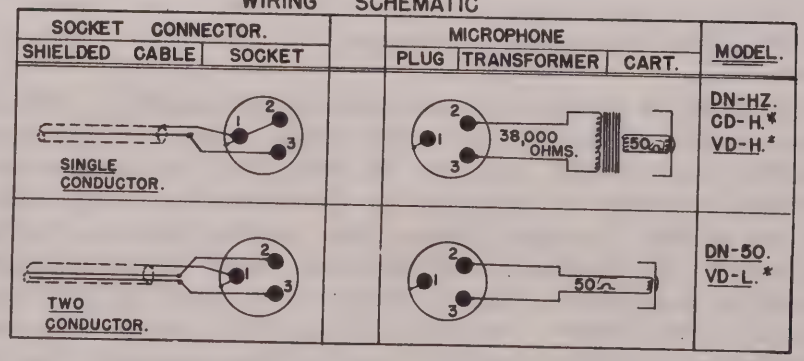
Astatic dynamic microphones are available in two output impedances, 50 ohm and high impedance models. Cardinal Models are high impedance only. The voice coil impedance of 50 ohms may be fed into any standard microphone-to-grid transformer, or directly to 50 ohm input, with minimum insertion loss. High impedance models may be used with an amplifier input resistance of 50,000 ohms or higher. The output level will rise slightly with increasing resistance, in the range of 50,000 to 500,000 ohms; higher resistances producing no significant change. Therefore, the HZ Models may be connected to the grid input of most commercially available amplifiers.

Long, shielded, two-conductor cable lines, of several hundred feet or more, may be used with the low (50 ohms) models. With the high impedance (38,000 ohms) model, only good quality, single-conductor, tightly shielded, low capacity cable should be used.

(see other side for Connector Diagram)

ASTATIC DYNAMIC MICROPHONES

WIRING SCHEMATIC



* Plug and socket connections not used in Cardinal and Velvet Voice Series. Otherwise wiring identical with 'DN' Series.

CAUTION: DO NOT slap or cup the hand over the microphone grille face as sudden increase in pressure may damage microphone diaphragm.

All dynamic microphones are guaranteed subject to the terms of ASTATIC WARRANTY.

The ASTATIC Corporation Conneaut, Ohio Printed in U.S.A.

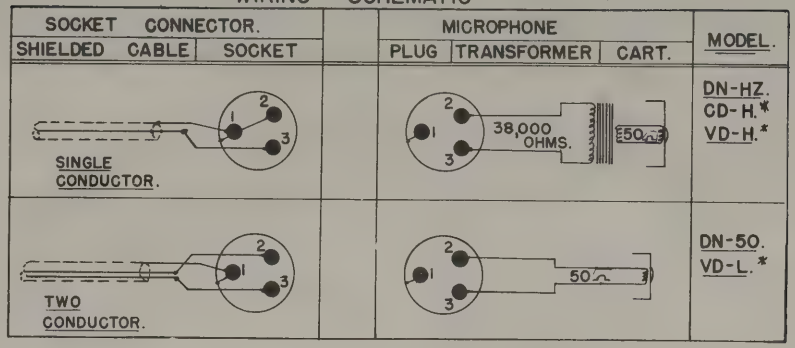
Form D-21-A

(see other side for General Data)

2

ASTATIC DYNAMIC MICROPHONES

WIRING SCHEMATIC



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Form D-21-A

(see other side for General Data)

2

ASTATIC DYNAMIC MICROPHONES

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The outstanding features of Astatic's dynamic microphones incorporate Astatic's UNITARY MOVING COIL SYSTEM, a magnetic structure of advanced design with ALNICO magnet and a carefully proportioned acoustic circuit. The UNITARY MOVING COIL SYSTEM positions the moving coil in its 'air-gap' with exact concentricity and small clearances to obtain high sensativity. The especially designed circular ALNICO '5' magnet used in the CD and VD Models, provides greater flux density resulting in higher output level, extended range and more stability. Its physical characteristics permit the design of more compact units without sacraficing high quality performance. Astatic dynamic microphones are not subject to changes in sensativity or response for any reason except improper handling. Under normal usage conditions they are not subject to overload distortion and may be used for close talking, medium or long range pickup.

Astatic dynamic microphones are available in two output impedances, 50 ohm and high impedance models. Cardinal Models are high impedance only. The voice coil impedance of 50 ohms may be fed into any standard microphone-to-grid transformer, or directly to 50 ohm input, with minimum insertion loss. High impedance models may be used with an amplifier input resistance of 50,000 ohms or higher. The output level will rise slightly with increasing resistance, in the range of 50,000 to 500,000 ohms; higher resistances producing no significant change. Therefore, the HZ Models may be connected to the grid input of most commercially available amplifiers.

Long, shielded, two-conductor cable lines, of several hundred feet or more, may be used with the low (50 ohms) models. With the high impedance (38,000 ohms) model, only good quality, single-conductor, tightly shielded, low capacity cable should be used.

(see other side for Connector Diagram)

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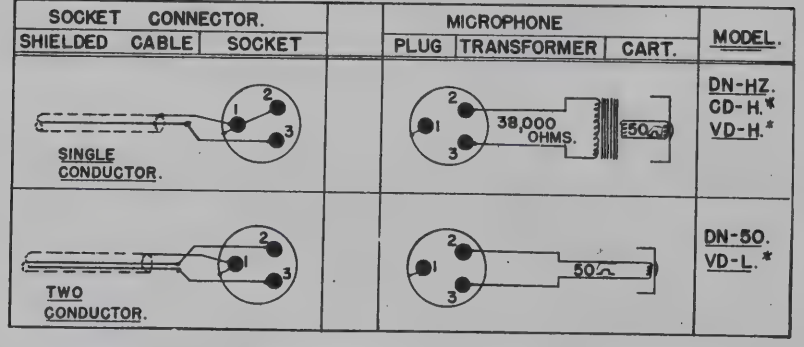
(see other side for Connector Diagram)

ASTATIC DYNAMIC MICROPHONES

WIRING SCHEMATIC



* Plug and socket connections not used in Cardinal and Velvet Voice Series. Otherwise wiring identical with 'DN' Series.

CAUTION: DO NOT slap or cup the hand over the microphone grille face as sudden increase in pressure may damage microphone diaphragm.

All dynamic microphones are guaranteed subject to the terms of ASTATIC WARRANTY.

The ASTATIC Corporation Conneaut, Ohio Printed in U.S.A.

Form D-21-A

(see other side for General Data)

2

ASTATIC DYNAMIC MICROPHONES

With the recent addition of the Models CD (Cardinal) and VD (Velvet Voice) Dynamic Microphones to the already established DN Series, Astatic now offers a selection of dynamic microphones to satisfy the most varied and exacting requirements.

The outstanding features of Astatic's dynamic microphones incorporate Astatic's UNITARY MOVING COIL SYSTEM, a magnetic structure of advanced design with ALNICO magnet and a carefully proportioned acoustic circuit. The UNITARY MOVING COIL SYSTEM positions the moving coil in its 'air-gap' with exact concentricity and small clearances to obtain high sensativity. The especially designed circular ALNICO '5' magnet used in the CD and VD Models, provides greater flux density resulting in higher output level, extended range and more stability. Its physical characteristics permit the design of more compact units without sacraficing high quality performance. Astatic dynamic microphones are not subject to changes in sensativity or response for any reason except improper handling. Under normal usage conditions they are not subject to overload distortion and may be used for close talking, medium or long range pickup.

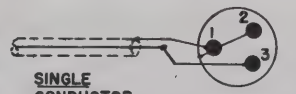
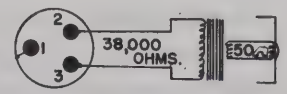
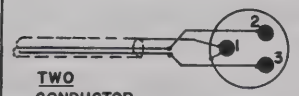
Astatic dynamic microphones are available in two output impedances, 50 ohm and high impedance models. Cardinal Models are high impedance only. The voice coil impedance of 50 ohms may be fed into any standard microphone-to-grid transformer, or directly to 50 ohm input, with minimum insertion loss. High impedance models may be used with an amplifier input resistance of 50,000 ohms or higher. The output level will rise slightly with increasing resistance, in the range of 50,000 to 500,000 ohms; higher resistances producing no significant change. Therefore, the HZ Models may be connected to the grid input of most commercially available amplifiers.

Long, shielded, two-conductor cable lines, of several hundred feet or more, may be used with the low (50 ohms) models. With the high impedance (38,000 ohms) model, only good quality, single-conductor, tightly shielded, low capacity cable should be used.

(see other side for Connector Diagram)

ASTATIC DYNAMIC MICROPHONES

WIRING SCHEMATIC

SOCKET CONNECTOR. SHIELDED CABLE	SOCKET	MICROPHONE PLUG	TRANSFORMER	CART.	MODEL.
 SINGLE CONDUCTOR.					DN-HZ. CD-H.* VD-H.*
 TWO CONDUCTOR.					DN-50. VD-L.*

* Plug and socket connections not used in Cardinal and Velvet Voice Series. Otherwise wiring identical with 'DN' Series.

CAUTION: DO NOT slap or cup the hand over the microphone grille face as sudden increase in pressure may damage microphone diaphragm.

All dynamic microphones are guaranteed subject to the terms of ASTATIC WARRANTY.

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Form D-21-A

(see other side for General Data)

2

ASTATIC DYNAMIC MICROPHONES

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(see other side for Connector Diagram)

MODEL 'G' GRIP-TO-TALK DESK STAND

HOOKUP INSTRUCTIONS

Remove bottom plate which is held by 3 screws, for access to terminal strip.

I. *STANDARD LINE; using single conductor shielded cable.
Cable connections:
Center conductor (for amplifier grid input) to Terminal "B".
Shield (ground) to Terminal "A".

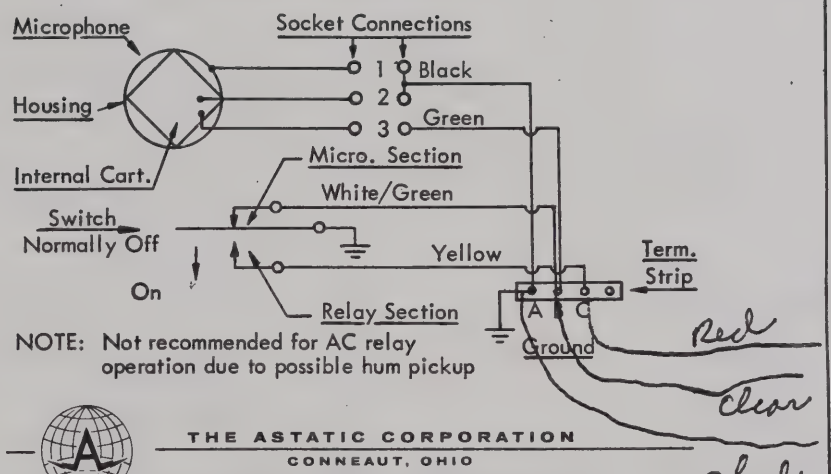
II. *STANDARD LINE; relay operation, using two conductor shielded cable.
Cable connections:
Microphone conductor (for amplifier grid input) to Terminal "B".
Relay conductor (relay control circuit) to Terminal "C".
Shield (common ground) to Terminal "A".

III. FOR CONTINUAL (VOX) OPERATION; remove white/green wire in switch circuit from Terminal "B".

NOTE: To hold switch bar in "ON" position, slide switch clamp up.

*Unbalanced to ground circuit (Note: conductor color codes of cables may vary)

"G" STAND - STANDARD HOOKUP



NOTE: Not recommended for AC relay operation due to possible hum pickup

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CONNEAUT, OHIO

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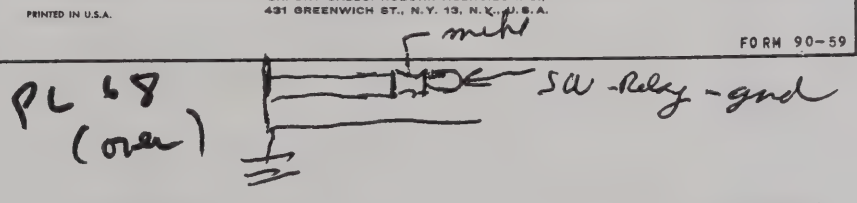

MODEL 'G' GRIP-TO-TALK DESK STAND

HOOKUP INSTRUCTIONS

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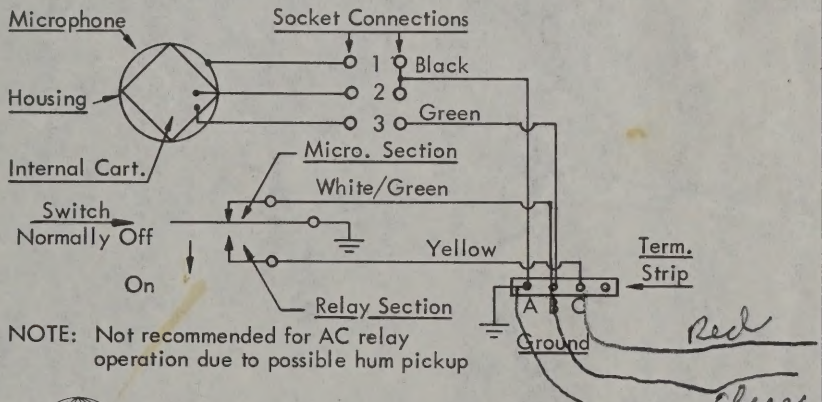
"G" STAND - STANDARD HOOKUP



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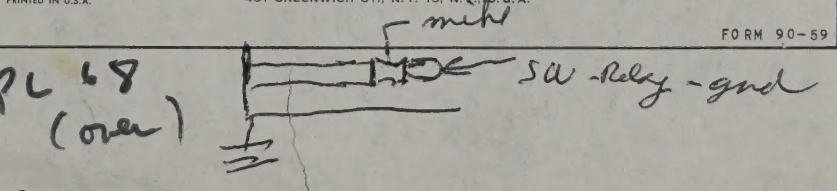

PL 68
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MODEL 'G' GRIP-TO-TALK DESK STAND

HOOKUP INSTRUCTIONS

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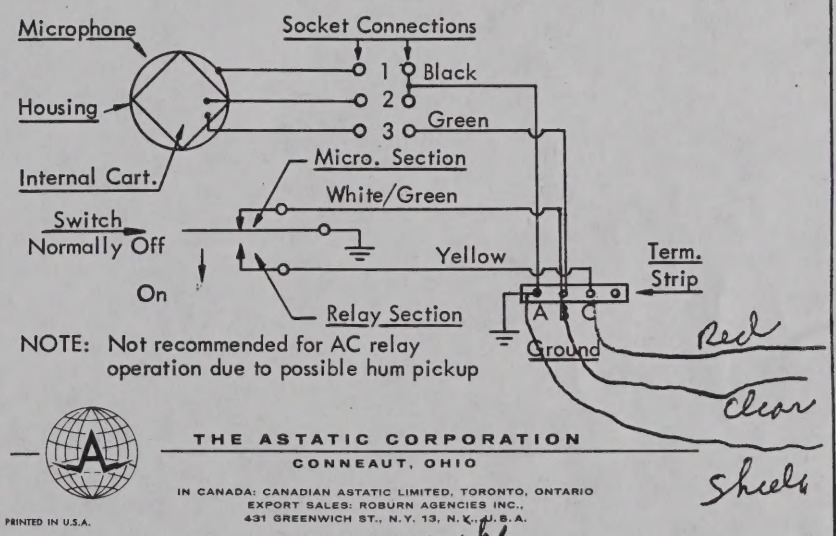

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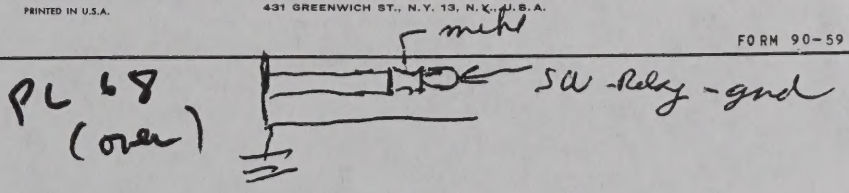

PL 68
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